# Demolition Permit Submission

March 12th 2021

# Natural Gas Utility

### **FOXROCK**

Josh Kleinman, AIA jkleinman@foxrockproperties.com

FoxRock Properties 1200 Hancock Street, Suite 301 Quincy, MA 02169

www.foxrockproperties.com

March 12, 2021

Joseph Duca Director of Inspectional Services Inspectional Services Department 55 Sea Street Quincy, MA 02169

Re: 114 Whitwell Demolition Permit

Dear Jay,

FoxRock was recently notified by National Grid that the existing gas services at locations B and C on the attached plan cannot be cut and capped prior to commencement of demolition due to internal issues within National Grid.

The first phase of building demolition is on the opposite side of the site, and demolition activity will not occur near the active gas lines until the later phases of demolition for which we will seek approvals for that work at a later time. At this time, we are asking the City for permission to begin the first phase of demolition.

As discussed, the General Contractor, Dellbrook Construction LLC, will submit a revised NFPA 241 Construction Fire Safety Plan to the Quincy Fire Department describing the measures they will implement to ensure demolition operations will not impact the live gas services.

Both FoxRock Properties and Dellbrook are aware of the risks associated with working in proximity to active gas lines. Due to the distance between the location of the Phase 1 demolition work and the active lines, we feel the risks can be managed appropriately to ensure a safe and timely demolition process as National Grid looks to follow-through on our previous request to cut and cap all gas lines.

Please contact me at your earliest convenience if you have any questions or require additional information

Best,

Josh Kleinman, AIA Director of Design & Construction

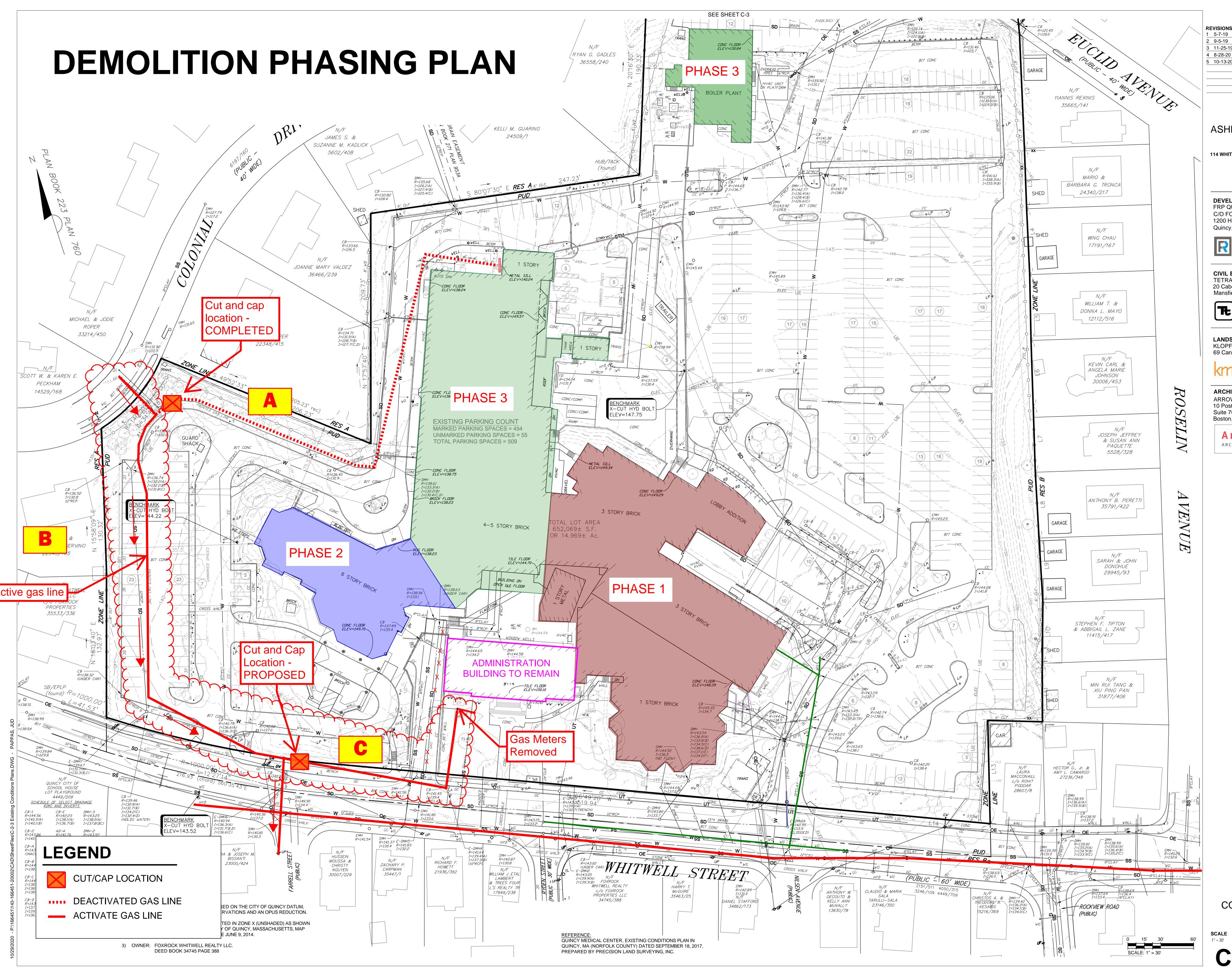
FoxRock Properties

Sont Klein

Enclosures: Demolition Phasing Plan

cc:

Matt Tharion, FoxRock Properties Steve Purdue, Redgate Racquel Davey, AIA, Redgate Sean Lawton, Redgate Chris Modica, DELLBROOK|JKS Tim Dann, DELLBROOK|JKS



REVISIONS
1 5-7-19 SUBMIT TO PLANNING BOARD
2 9-5-19 SUBMIT REVISED PLANS
3 11-25-19 STORMWATER DESIGN IMPROVEMENT
4 8-28-20 MINOR MODIFICATION SUBMISSION
5 10-13-20 MODIFIED STORMWATER & UTILITIES

ASHLAR PARK

114 WHITWELL STREET, QUINCY, MA

DEVELOPER:
FRP QUINCY DEVELOPMENT LLC
C/O FOXROCK WHITWELL REALTY LLC
1200 Hancock Street, Suite 301
Quincy, MA 02169

R FOXROCK

CIVIL ENGINEERING: TETRA TECH 20 Cabot Blvd. Suite 305 Mansfield, MA 02048

TETRA TECH

LANDSCAPE ARCHITECTURE: KLOPFER MARTIN DESIGN GROUP

(LOPFER MARTIN DESIGN GROUP 39 Canal St, 2 Fl, Boston, MA 02114

ndg

ARCHITECT:
ARROWSTREET
10 Post Office Square
Suite 700N
Boston, MA 02109

ARROWSTREET
ARCHITECTURE & DESIGN

EXISTING CONDITIONS PLAN

**PROJECT #**20020

DATE ISSUED
5/7/19

**C-2** 

### nationalgrid

March 3, 2021

#### 114 Whitwell St

Ashlar Park 114 Whitwell St Quincy, MA 02169

To Whom it May Concern:

See Map Attached

This letter is provided to notify you that National Grid cut the gas main at Section A on the attached map. Section B and C is still live. Section C going into the Admin Building will be cut off and not used for future growth.

114 Whitwell St on February 26th.

This letter **DOES NOT** preclude the excavator or homeowner from **calling 811** before commencing any work. State law requires anyone planning underground excavation work to notify local utilities by **calling 811** to get your underground lines identified for you prior to doing any digging. **The call to 811 is the LAW** and must be made in advance of starting work. This confirmation letter of a gas cut-off **DOES NOT** relieve the excavator of making the **call to 811**. **It is a State Law requirement**."

If you have any questions or concerns, please call or email me.

Thank you,

Kerrie Doyle national**grid** Lead Account Manager Kerrie.doyle@nationalgrid.com 781-999-3251 Commented [DK1]:

Commented [DK2R1]:

# **Electrical Utility**





February 23, 2021

### **Quincy Medical Center Electrical Demolition**

PROJECT: Ashlar Park

114 Whitwell Street Quincy, MA 02169

OWNER: FoxRock Whitwell Realty, LLC

1200 Hancock Street Quincy, MA 02169

GENERAL CONTRACTOR: Delibrook JK Scanlan

One Adams Place Quincy, MA 02169

This is the method of procedure for the disconnection of electrical equipment for the demolition of the existing building in three phases. The phases comprise of phase one east wing, phase two south wing and phase three west wing and boiler plant. Phase three must remain active until EMS and Fire Departments equipment is remove from site. Tentative date for this is May 28<sup>th</sup>, 2021.

- The main incoming primary electrical service originates from an underground duct back from utility pole #1290/20 on Whitwell Street and enters the high voltage vault at the east entrance to the site.
- The site consists of primary voltage feeders two 5kv and two 15kv systems.
- The 5kv system runs via an underground duct bank from the high voltage vault to the East Wing and an overhead conduit to the West Wing.
- The 15kv system runs via an underground duct bank from the high voltage vault to the West Wing and then to Boiler Plant. This will remain active until the EMS and Fire Departments equipment is removed. Approximately May 28<sup>th</sup>, 2021.

-DENIDAD

#### Phase One East Wing Demolition - Consisting of East Wing, Rice Building and C Building

- The East Wing is primarily feed from the 5kv system.
- The 5kv system will be disconnected in the exterior vault and lockout tagged out. Conductors will be disconnected and grounded out. This will be completed by February 26, 2021.
- Once the 5kv system is disconnected the East Wing will be check for any active electrical feeders from the Phase Three section of the building.
- Any active electric feeders will be removed from their power source and cut back as not to able to be reconnected.
- Once the above is completed this area will be turned over to the general contractor for demolition.
- Glynn Electric will provide a sign off on their letter head for each demolition certifying the area has been made safe.

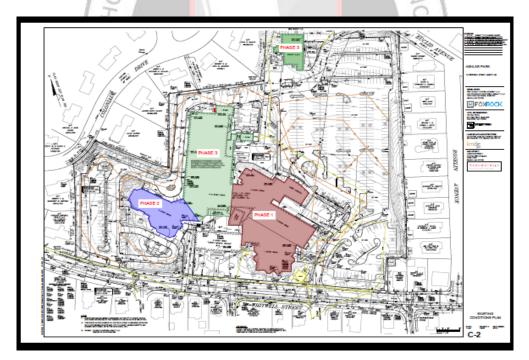


#### Phase Two South Wing Demolition - Consistent of Building A

- The South Wing electrical feeders originate from the Phase Three section of the building.
- All active electric feeders in the South Wing will be removed from their power source and cut back as not to able to be reconnected.
- Once the above is completed this area will be turned over to the general contractor for demolition. Glynn Electric will provide a sign off on their letter head for each demolition certifying the area has been made safe.
- Glynn Electric will provide a sign off on their letter head for each demolition certifying the area has been made safe.

#### Phase Three West Wing - Consisting of West Wing, Building B and Boiler Plant

- This the final phase of the demolition, once it is confirmed that the EMS and Fire Departments
  equipment is removed National Grid will be notified to disconnect and remove the electrical
  service to the site.
- Once the above is completed this area will be turned over to the general contractor for demolition.
- Glynn Electric will provide a sign off on their letter head for each demolition certifying the area has been made safe.



Charles Soares Project Manager Glynn Electric, Inc. 508-961-8058



PROJECT:

OWNER:

GENERAL CONTRACTOR:

March 8, 2021

### Quincy Medical Center Electrical Demolition Affidavit

FoxRock Whitwell Realty, LLC 1200 Hancock Street Quincy, MA 02169

Dellbrook JK Scanlan

Ashlar Park 114 Whitwell Street Quincy, MA 02169

One Adams Place
Quincy, MA 02169
I hereby certify that as the licensed contractor responsible for the make safe of the electrical circuits in the Phase One East Wing demolition consisting of East Wing, Rice Building and C Building.
The 5kv system has been disconnected in the exterior vault and lockout tagged out. Conductors have been disconnected and grounded out. East Wing has been checked for any active electrical feeders from the Phase Three section of the building. Any active electric feeders have been removed from their power source and cut back as not to able to be reconnected.
Chay for
Signature  Charles Soares
Print
Date: 3/08/2021
Then personally appeared the above named <u>Charles Sourcs</u> and Made oath that the foregoing statement by him subscribed this day was his free act and deed, before
Harrit Edell'an
Notary Public
My commission expires: 2/12/2001 HARRIET E. DELL'ANNO Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires On February 12, 2027
A MANAGE TO STATE OF THE STATE

# Water Department

#### **Timothy Dann**

From: Paul Costello <pcostello@quincyma.gov>

Sent: Monday, March 1, 2021 2:56 PM

To: Chris Modica; Josh Kleinman; ROBERT A STEVENS; MARK VIALPANDO; PETER HOYT

Cc: Timothy Dann; Frank Leonardo; Robert Solon Subject: Re: FoxRock Ashlar Park - New Water Service

Chris,

I spoke to Peter Hoyt and we are amenable to what you propose. Please submit the Street Access Permit as soon as you can and we'll process it.

Paul

From: Chris Modica <cmodica@dellbrookjks.com>

Sent: Monday, March 1, 2021 1:45 PM

**To:** Josh Kleinman <josh@foxrockquincy.com>; Paul Costello <pcostello@quincyma.gov>; ROBERT A STEVENS <RSTEVENS@quincyma.gov>; MARK VIALPANDO <MVIALPANDO@quincyma.gov>; PETER HOYT <phoyt@quincyma.gov>

Cc: Timothy Dann <tdann@dellbrookjks.com>; Frank Leonardo <FLeonardo@dellbrookjks.com>; Robert Solon

<RSolon@dellbrookjks.com>

Subject: FoxRock Ashlar Park - New Water Service

Hi Paul, Josh Kleinman forwarded me the mail below. Our Site contractor, J.R. Vinagro, is in the process of ordering the materials for the new water service. For the temporary vaults, we are ordering 6' diameter manhole riser sections w/flat tops. Each riser section will house a 2" water service w/a water meter & BFP. The installation of the new water service is time sensitive, as a result, we would like to coordinate w/the city & perform the work as soon as we have all materials in hand. We plan on cutting & capping the existing water service at the main in Whitwell Street, however, we will not be ready to cut/cap the service until early April. Please confirm the City is amenable to our plan to install the new water service ASAP & cut/cap the existing water service in early April.

Feel free to call me directly if you have any questions.

Thanks,

Chris Modica

Senior Project Manager

Direct: (781) 380-1679/Mobile: 617-874-6520



One Adams Place | 859 Willard St. | Quincy, MA 02169 | 781.380.1675

15 Research Rd. | East Falmouth, MA 02536 | 508.540.6226

f 🂆 🎯 in

----- Forwarded message ------

From: Paul Costello < pcostello@quincyma.gov >

Date: Fri, Feb 26, 2021 at 2:54 PM

Subject: Demolition Plan

To: Josh Kleinman < josh@foxrockquincy.com >

CC: ROBERT A STEVENS < RSTEVENS@quincyma.gov >, MARK VIALPANDO < MVIALPANDO@quincyma.gov >

Josh,

We were able to print the demo plan you sent and I gave it to Mark Vialpando to review. I also want to point out that the 12"1954 CICL on Euclid Street split on January 12, 2018 - about 200 feet where your proposed temporary meter is. For an FYI, the 12" line from your site also goes into a 6" 1954 CICL on Euclid and a 12" 1954 CICL on Roselin Ave. Our Phase 2 capital improvement plan includes paving of Euclid and, prior to, we intend to assess if the 6" diameter on Euclid needs to be upgraded.

I also noticed that you intend to cut and cap the utilities on your site. Mark and Peter generally cut and cap the pipes in the street and back to the mains. This is good practice to avoids having stems of abandoned pipes in the street.

#### Paul

The content of this email is confidential and intended for the designated recipient specified above. If you are not the intended recipient, then you received this message by mistake. Please notify the sender of the mistake by replying to this message and then immediately delete it from your computer. It is strictly forbidden to share any part of this message with any third party, without written consent of the sender.

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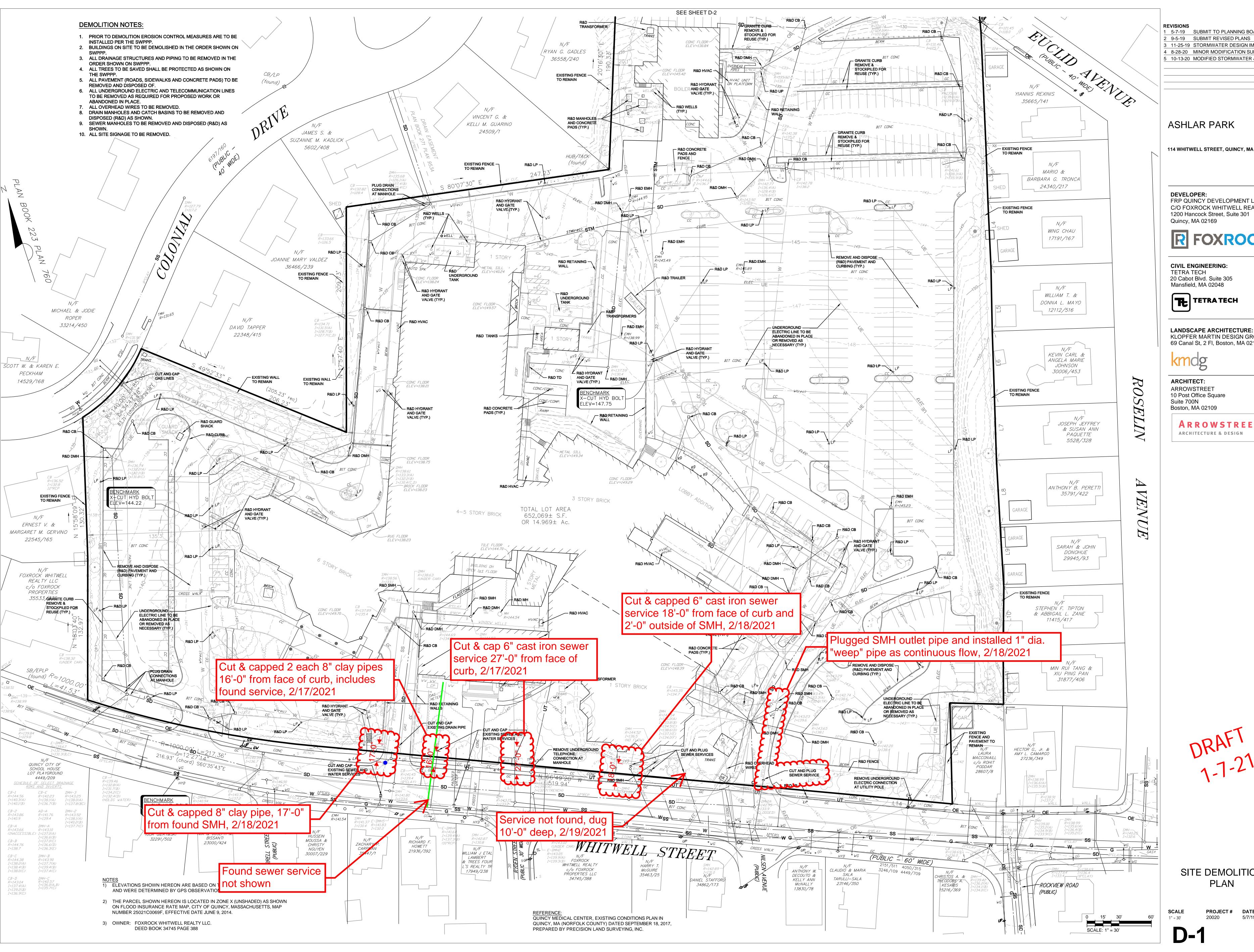
#### Josh Kleinman, AIA

Director of Design & Construction

617.433.7792 foxrockproperties.com 1200 Hancock Street, Suite 301, Quincy, MA 02169



## Drainage and Sewer Department



1 5-7-19 SUBMIT TO PLANNING BOARD 2 9-5-19 SUBMIT REVISED PLANS 3 11-25-19 STORMWATER DESIGN IMPROVEMENT 4 8-28-20 MINOR MODIFICATION SUBMISSION 5 10-13-20 MODIFIED STORMWATER & UTILITIES

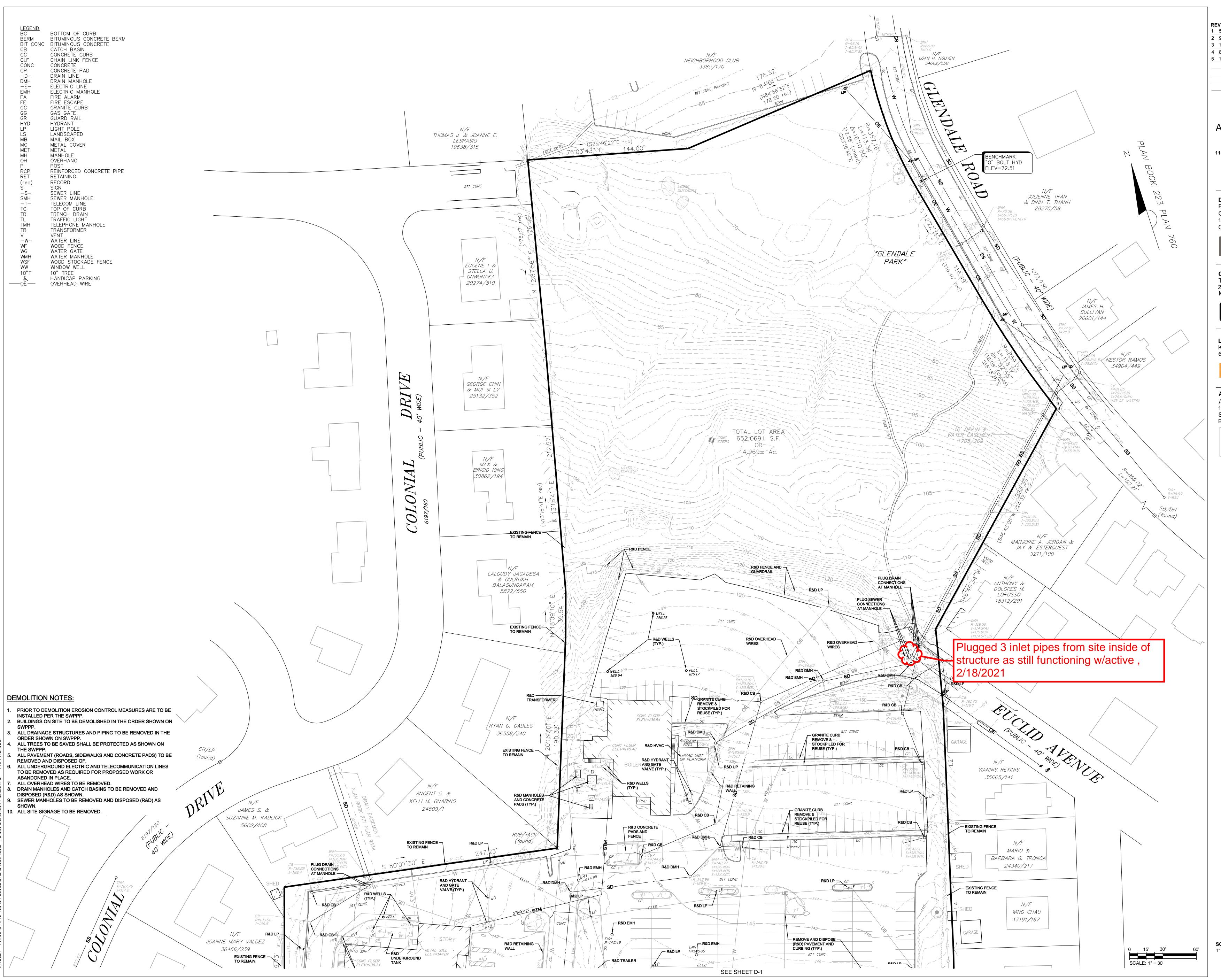
FRP QUINCY DEVELOPMENT LLC C/O FOXROCK WHITWELL REALTY LLC 1200 Hancock Street, Suite 301

LANDSCAPE ARCHITECTURE: KLOPFER MARTIN DESIGN GROUP 69 Canal St, 2 Fl, Boston, MA 02114

ARROWSTREET ARCHITECTURE & DESIGN

SITE DEMOLITION

PROJECT # DATE ISSUED 5/7/19



REVISIONS

1 5-7-19 SUBMIT TO PLANNING BOARD
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ASHLAR PARK

114 WHITWELL STREET, QUINCY, MA

DEVELOPER:
FRP QUINCY DEVELOPMENT LLC
C/O FOXROCK WHITWELL REALTY LLC
1200 Hancock Street, Suite 301
Quincy, MA 02169



CIVIL ENGINEERING: TETRA TECH 20 Cabot Blvd. Suite 305

Mansfield, MA 02048

TETRA TECH

LANDSCAPE ARCHITECTURE: KLOPFER MARTIN DESIGN GROUP 69 Canal St, 2 Fl, Boston, MA 02114

**c**mdg

ARCHITECT:
ARROWSTREET
10 Post Office Square
Suite 700N
Boston, MA 02109

ARROWSTREET
ARCHITECTURE & DESIGN

DRAFT 1-21

SITE DEMOLITION PLAN

SCALE PROJECT # DATE ISSUED
1" = 30' 20020 5/7/19

**D-2** 

# Dig Safe Notification

#### **Bill Peckham**

FAX #.....

ALT. PHONE #....401-383-7198

CITY.....JOHNSTON

EMAIL ADDRESS...JOSEPHG@JRVINAGROCORP.COM
CONTRACTOR.....JR VINAGRO CORPORATION
ADDRESS......2208 PLAINFIELD PIKE

Joseph Godino From: Tuesday, February 09, 2021 6:36 AM Sent: Bill Peckham To: FW: Dig Safe Ticket: 20210601576 Subject: fvi From: DigSafe <callcenter@digsafe.com> Sent: Tuesday, February 9, 2021 6:35 AM To: Joseph Godino <josephg@jrvinagrocorp.com> Subject: Dig Safe Ticket: 20210601576 (DIG SAFE SYSTEM, INC - MA) 02/09/2021 06:35:05 -MF -OA -BB -HK -SC \*\*\* INTERNET TICKET \*\*\* \*\*\*\* REGULAR \*\*\*\* TIME..06:33 DATE..02/09/2021 REQUEST NO...20210601576 STATE.....MASSACHUSETTS MUNICIPALITY..QUINCY ADDRESS..114 STREET...WHITWELL ST NEAREST CROSS STREET 1.. ROSELIN AVE 114 WHITWELL STREET- QUINCY MEDICAL CENTER NATURE OF WORK..CUT AND CAP, NEW DRAIN, WATER AND SEWER EXTENT OF WORK WITHIN WHITWELL STREET ALONG PROPERTY AND ON PROPERTY AREA IS PREMARKED. YES \_\_\_\_\_\_\_ START DATE.....02/12/2021 START TIME..06:45 CALLER.....JOSEPH GODINO TITLE.... RETURN CALL.... PHONE #.....401-225-4349

1

STATE......RI
ZIP......02919
EXCAVATOR DOING WORK..J.R. VINAGRO CORP

This Dig Safe ticket expires on 03/11/2021

#### Utilities notified:

		800- 778-
COMCAST - MA	CABLE TV	9140 800-
NATIONAL GRID ELECTRIC-MASS ELEC	ELECTRIC	778- 9140
NATIONAL GRID GAS-BOSTON	GAS	800- 233- 5325
QUINCY DPW	DRAINAGE, SEWER, WATER	617- 376- 1910
		800- 624-
VERIZON	TELEPHONE	9675

THERE MAY BE NON MEMBER UTILITIES IN THE AREA THAT YOU NEED TO NOTIFY.
ELECTRIC AND OTHER UTILITIES MAY NOT MARK LINES THEY DON'T OWN OR MAINTAIN. YOU MAY NEED TO HIRE A PRIVATE COMPANY TO LOCATE THESE LINES.

THE EXCAVATOR IS RESPONSIBLE TO MAINTAIN MARKS PLACED BY THE MEMBER UTILITIES.

# Construction Management Plan

### **CONSTRUCTION MANAGEMENT PLAN**

Ashlar Park 114 Whitwell Street Quincy, MA 02169

Prepared By: DELLBROOK | JKS, LLC

One Adams Place 859 Willard Street Quincy, MA 02169

**Prepared For:** City of Quincy

**Date:** November 23, 2020 **Revision:** 1 | 01/20/2021



#### **SECTION 1 | PROJECT SUMMARY**

#### 1.1 Project Location

Street Address: 114 Whitwell Street

**Coordinates** 

Latitude/Longitude: 42° 15′ 6.65″ N, 71° 0′ 47.29″ W

**UTM:** 4679701.10 N, 333932.48 E

1.2 Project Team

Owner: FoxRock Whitwell Realty, LLC

1200 Hancock Street, Suite 301

Quincy, MA 02169

Josh Kleinman, AIA, Director of Design & Construction

**Architect:** Arrowstreet Inc.

10 Post Office Square, Suite 700N

Boston, MA 02169

David Bois, AIA, Principal

Jason King, AIA, Senior Associate

Civil Engineer: Tetra Tech INE – United States Infrastructure Division

20 Cabot Boulevard, Suite 305

Mansfield, MA 02048

Richard D. Alfonso, Vice President

Glenn K. Dougherty, P.E., Senior Project Manager

General Contractor: DELLBROOK | JKS, LLC

One Adams Place 859 Willard Street Quincy, MA 02169

James Tracey, Executive Vice President

Christopher J. Modica, Senior Project Manager

Timothy Dann, Project Manager

Joel Anifowose, Assistant Project Manager Ian Briggs, Vice President of Field Operations Robert Solon, Senior Project Superintendent



#### 1.3 Project Description

The project consists of the abatement and demolition of the Quincy Medical Center to make way for four (4) residential buildings. The new residential buildings, A, B, C, and D will include 465 apartment units and total 448,292 SF. Building's A and C will each consist of a slab-on-grade with five (5) levels of residential wood framed construction. Building's B and D will each consist of a concrete podium with one (1) level of parking below and five (5) levels of residential wood framed construction above. The project also includes the adaptive re-use and addition to the historic Administration Building to provide 19,500 SF of amenities space. The Administration Building will be connected to the Building B garage via a tunnel at basement level. Please refer to Figure 1 for building areas and unit counts.

Figure 1 | Building Areas & Unit Counts

Building	Gross Area (SF)	<b>Unit Count</b>
Α	67,072	65
В	118,849	132
С	103,292	123
D	139,579	145
Admin	19,500	
	448,292	465

There will be four (4) surface parking lots to accommodate 277 vehicles plus two (2) additional parking spaces in front of each building for handicap use. There will be a main courtyard above the Building B garage with a pool, landscaped areas, fire pits, grilles, and gathering areas. A secondary courtyard will be located behind Building D with access to the Glendale wooded area. A road will encircle the site providing access from Whitwell Street to the residential buildings, main courtyard, and surface parking lots. Please refer to Figure 2 for the layout of the site and buildings.

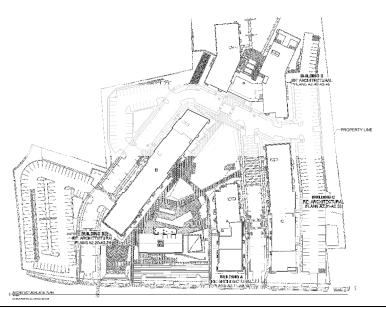


Figure 2 | Architectural Site Plan

Date: 11/23/2020 Revision: 1 | 01/20/2021



#### 1.4 Project Phasing

The abatement/demolition and construction phasing plans are attached as Exhibit A to this Construction Management Plan. Please refer to Figure 3 for a summary of the phases.

Figure 3 | Project Phases

Phase	Description
0	Abatement & Demolition
1A	Building's B & D Foundations & Podium Decks
	Admin/Amenity Building, Building A, & Surface Lot A
1B	Building B, Garage, Courtyard, & Surface Lot B
2	Building D, Garage, Surface Lot D, & Open Space Improvements
3	Building C & Surface Lot C

#### 1.5 Leadership in Energy & Environmental Design

The project will be designed to be LEED certifiable with a goal of LEED Gold.

#### **SECTION 2 | PROJECT SCHEDULE**

#### 2.1 Construction Schedule

The project duration is expected to be thirty-six (36) months. There will be six (6) months of enabling work followed by thirty (30) months of construction. The enabling phase is expected to start in January 2021 with completion expected in July 2021. The construction phase is expected to begin in July 2021 with final completion expected in February 2024. Please refer to Figure 4 for milestone dates for enabling, construction, and building turn-over.

Figure 4 | Milestone Dates

TASK NAME	START DATE	FINISH DATE
Enabling		
Abatement	01/04/21	04/02/21
Demolition	03/08/21	07/02/21
Construction	05/17/21	02/02/24
Closeout	01/01/24	03/01/24
Building Turn-Over		
Admin/Amenity Building, Building A, & Surface Parking Lo	ot A	02/10/23
Building B, Garage, & Surface Parking Lot B		05/12/23
Building D, Garage, Surface Parking Lot D, & Open Space I	mprovements	08/11/23
Building C & Surface Parking Lot C		02/02/24
Final Completion		02/02/24



#### 2.2 Work Hours

The work hours for construction activities and deliveries will comply with the Department of Planning and Community Development site plan approval conditions dated December 4, 2019. There will not be any work on Sunday's or federal holidays. In addition, construction equipment will not be started or operated before or after the approved work hours. Please refer to Figure 5 for a list of the approved work hours.

#### Figure 5 | Work Hours

Monday thru Friday – 7:00 AM to 5:00 PM
Saturday – 8:00 AM to 4:00 PM
Sunday – Work is prohibited unless approved in advance by the Chief of Police

#### **SECTION 3 | SITE LOGISTICS**

#### 3.1 Logistics Plans

The preliminary logistics plans are attached as Exhibit B to this Construction Management Plan. The logistics plans are designed to isolate the construction area from the public and provide safe travel for vehicles, bicycles, and pedestrians. After each phase of construction, the site will be consolidated to enclose the remaining construction areas and the logistics plans will be modified accordingly.

The site will be secured using 6'-0" driven post temporary fencing with wind screen. The wind screen will be installed on the fencing along Whitwell Street only. There will be two (2) 24'-0" vehicle gates and two (2) 3'-0" single gates on Whitwell Street. One (1) 3'-0" gate will be located in front of the Administration Building and the other gate will be located in the Southeast corner of the site adjacent to the field office trailer. The 24'-0" vehicle gates will be located on Whitwell Street from the start of abatement and demolition work through the completion of Phase 1A. The vehicle gates will include tracking pads and wheel wash stations to help reduce tracking of dirt and debris on to the city streets. Prior to the start of Phase 1B, one (1) vehicle gate will be moved to the southeast corner of the site and the second vehicle gate will be moved off Whitwell Street on to the loop road adjacent to Building B. The new vehicle gate location in the southeast corner of the site will require a curb cut on Whitwell Street. DELLBROOK|JKS will coordinate the curb cut with the Department of Public Works and submit a Curb Removal Request Form. Upon completion of Phase 1B, the vehicle gate on the loop road will be eliminated and the gate in the southeast corner of the site will be the only gate used to access the site.

#### 3.2 Temporary Facilities

DELLBROOK JKS will set-up a 24' x 60' office trailer as a temporary field office. The trailer will be in the southeast corner of the site in the parking lot adjacent to Whitwell Street. The field office will have power and data service and include office space for DELBROOK JKS staff and a meeting area for project team members.

DELLBROOK|JKS has an agreement with United Site Services Northeast, Inc. to supply and service portable restrooms on all our job sites. DELLBROOK|JKS will provide one (1) restroom unit per ten (10) workers per forty (40) hour work week including hand sanitizer and toilet tissue. The portable restrooms will be re-stocked and cleaned on a regular basis to prevent odor migration.

Please refer to the preliminary site logistics plans attached as Exhibit B for the location of the DELLBROOK|JKS temporary field office.



#### 3.3 Truck & Vehicle Travel Routes

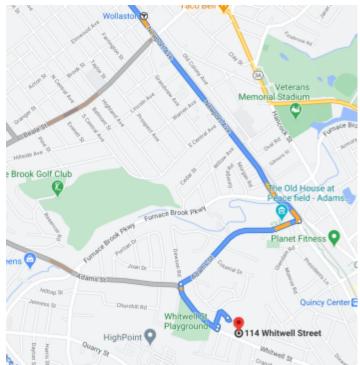
The selection of the proposed truck and vehicle travel routes is based on the following criteria:

- Maximizing use of arterial and collector roads
- Minimizing truck and vehicle travel in residential areas
- Defining specific routes where construction-related truck and vehicle travel is permitted

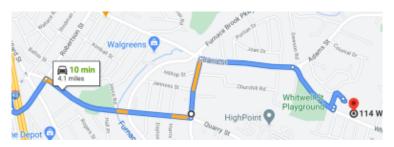
The proposed travel routes are shown in Figure 5. The proposed routes utilize arterial roads such as Interstate 93 and collector roads for travel to and from the site. In addition, the proposed routes minimize travel time on residential city streets. DELLBROOK|JKS will document the permitted travel routes in all subcontractor agreements.

Figure 6 | Travel Routes

Neponset Avenue to Adams Street to Whitwell Street



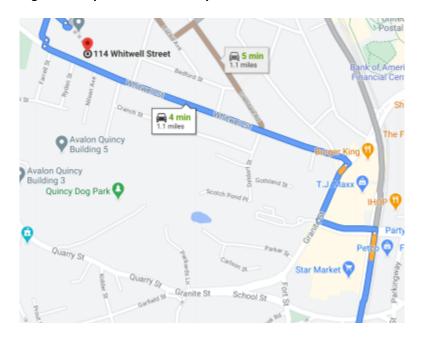
**Quarry Street to Common Street to Adams Street to Whitwell Street** 



Date: 11/23/2020 Revision: 1 | 01/20/2021



#### **Burgin Parkway to Hannon Parkway to Granite Street to Whitwell Street**



#### 3.4 Material & Equipment Deliveries

DELLBROOK JKS will prohibit material and equipment deliveries prior to 7:00 AM. Every effort will be made to schedule deliveries during off-peak hours whenever possible. If deliveries are scheduled during peak hours, DELLBROOK JKS will manage the deliveries in a manner that minimizes disruption to pedestrians and vehicles. Street closures will be avoided. If a full or partial street closure is needed, the closure will be limited to off-peak hours and a police detail will be used if required by the City. Truck queuing will only be allowed on site. Under no circumstances will truck queuing be allowed on Whitwell Street or other city streets. All deliveries will be unloaded on-site. DELLBROOK JKS will provide secure laydown areas for materials, equipment, tools, and supplies.

#### 3.5 Parking

Date: 11/23/2020

Parking will be prohibited on all city streets and roads in the vicinity of the site. DELLBROOK JKS will provide onsite parking for their own personnel, subcontractors, and visitors. Also, DELLBROOK|JKS will encourage subcontractors to implement car/vanpool programs and/or use public transportation to reduce constructionrelated traffic and on-site parking needs. The project specific parking requirements and restrictions will be documented in all subcontractor agreements.

#### 3.6 Perimeter Protection & Public Safety

DELLBROOK JKS will employ the following best practices to ensure safe pedestrian and vehicle travel along the perimeter of the site:

Submission of Traffic and Pedestrian Management Plans for work in the public way. The plans will identify hazards and appropriate controls to coordinate vehicle and pedestrian routing with construction activities



- Separating construction areas from pedestrian and vehicle traffic using 6'-0" driven post temporary construction fencing and/or jersey barriers
- · Installing safety and directional/wayfinding signage and modifying the signage as site conditions change
- Installing temporary site lighting when street lighting is impacted by construction
- Installing sidewalk protection. If sidewalk protection is required, it will be installed in a manner that minimizes the impact to pedestrian and vehicle flow
- Install visible stop lines and caution signs at locations where construction-related trucks and vehicles cross sidewalks

#### 3.7 Police Details

Police details will be requested from Quincy Police Department for the following activities if required by the City:

- Work in the public way
- · Control of pedestrian, bicycle, and vehicle conflicts with construction-related trucks and vehicles
- Delivery of materials and equipment that prohibit normal traffic flow and pedestrian safety for an extended period of time

#### 3.8 Site Security

DELLBROOK JKS will employ best practices to secure the site. The site security measures will be maintained for the duration of the project and include the following:

- Temporary construction fencing to enclose the site
- Security signage posted at access gates, along the fence line on Whitwell Street, and at other locations as needed
- Visitors check-in at the DELLBROOK JKS field office prior to accessing the site
- Cameras monitoring at access gates
- Perimeter video surveillance monitoring

#### 3.9 Snow Removal

Date: 11/23/2020

DELLBROOK|JKS will be responsible for snow and ice removal on the site and in public areas affected by construction. Snow from plowing operations will be stored on-site. Under no circumstances will snow be disposed of on public property or neighboring private properties. Snow piles will be inspected on a regular basis to remove debris and monitor run-off from melting snow and ice.

#### **SECTION 4 | ENVIRONMENTAL CONTROLS**

#### 4.1 Storm Water Pollution Prevention Plan (SWPPP)

DELLBROOK | JKS will comply with the Storm Water Pollution Prevention Plan (SWPPP). DELLBROOK | JKS will employ the following best practices for erosion and sedimentation control, temporary stormwater management, and site stabilization:



- Inspecting erosion and sedimentation control measures weekly and within twenty-four (24) hours of a rain event
- Stabilizing critical areas subject to erosion immediately following initial disturbance or rough grading
- Stabilizing disturbed areas that will remain exposed for greater than thirty (30) days
- Grading the site to divert stormwater run-off to erosion and sediment control facilities
- Locating stockpiles a minimum of 50'-0" away from drainage facilities, slopes, paved surfaces, and roadways
- Installation of hay bales and silt fence at the base of all stockpiles
- Installation of stabilized construction entrances
- Installation of hay bales and silt fence along the perimeter of the site
- Identification and protection of existing stormwater inlets
- Designation and containment of concrete washout areas
- Regular cleaning of paved roadways

Prior to any land disturbance activities, DELLBROOK | JKS will implement erosion and sediment control measures and review these measures with the City and/or its designated representative.

#### 4.2 Construction Trash & Debris

DELLBROOK|JKS will install roll-off dumpsters at various locations on the site based on the phasing and progress of the work. The dumpsters will be located away from emergency access routes. Trash chutes will be used to remove construction debris from the buildings. DELLBROOK|JKS will not allow trash and debris above the dumpsters' fill line and the dumpsters will be swapped out on a regular basis. All dumpsters will be tarped prior to leaving the site to prevent trash and debris from falling or blowing on to city streets or neighboring properties.

#### 4.3 Rodent Control

DELLBROOK|JKS has engaged Ladybug Pest Control Services, Inc. (Ladybug Pest Control) for rodent and pest control services. They will provide all labor and materials necessary to perform these services in accordance with all applicable codes, Federal, State and Local laws and ordinances, EPA regulations, and all authorities having jurisdiction. Ladybug Pest Control is licensed and insured to provide rodent and pest control services in the State of Massachusetts. Please refer to Figure 7 for the contact information, license number, and scope of services for Ladybug Pest Control.

**Figure 7 | Rodent Control Services** 

Ladybug Pest Control Services, Inc.

44 Billings Road North Quincy, MA 02171

Tel: 617-745-0044

Fax: 617-745-0808

Linda O'Brien-Lindsay, Chief Executive Officer

E-Mail: Linda@Ladybugpcs.com

License #CC-0025279 Expiration: 12/31/2021

Service Dates: February 22, 2021 – February 2, 2024



Service Length: 155 Weeks

Number of Bait Stations: Phase 0 - 160 EA

Phase 1A - 160 EA Phase 1B - 150 EA Phase 2 - 120 EA Phase 3 - 60 EA

Location: Every 20'-0" around the perimeter of the site delineated by the location of the

temporary construction fencing

Frequency of Monitoring: Every ten (10) business days

Note: The quantity of bait stations and frequency of monitoring will be increased as needed based on the level of rodent and pest activity

The Rodent and Pest Management Plan will be implemented on February 22, 2021, ten (10) business days prior to the start of building demolition on March 8, 2021. The plan will remain effect until February 2, 2024, twenty (20) business days after substantial completion on January 5, 2024. The rodent and pest management plan includes the following:

- 160 PROTECTA Evo tamper-resistant bait stations manufactured by Bell Laboratories, Inc. The bait stations will be placed every 20'-0" around the perimeter of the site and secured to the temporary construction fencing. The site limits will change after each phase of work; however, the bait stations will continue to be placed every 20'-0" around the perimeter. The site limits for each phase of work are delineated by the location of the temporary construction fencing on the attached Logistics Plans
- Contrac Blox single-feeding anticoagulant rodenticide blocks manufactured by Bell Laboratories, Inc. An uninterrupted ten (10) day supply of fresh bait will be provided in each bait station. The quantity of rodenticide blocks necessary to provide an uninterrupted ten (10) day supply will be based on the manufacturer's product information
- Inspection and maintenance of bait stations every ten (10) business days and re-baiting as needed.
   Inspection and maintenance services will be increased as needed based on the level of rodent and pest activity observed during treatment, changes in rodent populations, and rodent related complaints due to demolition and construction activities
- On-site logbook to document all inspection and maintenance visits. The logbook will be available
  for inspection by a representative of the Quincy Health Department and/or Inspectional Services
  Department. The logbook will include a diagram of the property showing the locations of all bait
  stations, MSDS for the pesticides being used, and license and insurance information for Ladybug
  Pest Control
- Rodent and pest control reports within five (5) business days after treatment documenting the location of treatments, percentage of bait consumed, and any rebaiting or rodent control related activities

DELLBROOK JKS will take the following actions to mitigate rodent and pest problems on-site.

- Review job site sanitation rules with workers prior to starting work on site. Review and reinforce
  the rules weekly at Foreman and Subcontractor meetings for the duration of the project
- Monitor and clean-up construction and laydown areas daily. Maintain the areas free of trash and debris
- Monitor and clean-up the perimeter of the site on a regular basis. Maintain the perimeter free of trash and debris

Date: 11/23/2020



- Provide an adequate amount of refuse containers with tight fitting lids throughout the site. Enforce proper use of refuse containers to prevent attraction of rodents and pests
- Provide refuse containers with tight fitting lids at lunch and break areas. Empty and clean the refuse containers daily
- Prohibit food in the buildings at all times. Consolidate lunch and break areas to designated locations on the exterior of the buildings

#### 4.4 Dust Control & Air Quality

DELLBROOK | JKS will submit a Dust Control Plan (DCP) to the Quincy Health Department for review and approval prior to any site activity. The DCP will include best practices and mitigation measures available to DELLBROOK | JKS to help reduce dust and other construction-related airborne material impacts including the following:

- Alternate methods of construction
- Wetting exposed earth areas
- Covering dust producing materials
- Limiting construction activities during sustained high wind conditions
- Seeding, covering, wetting, and/or otherwise treating disturbed soil areas
- Minimizing storage and relocation of spoils and debris on-site
- Installing wind screen on temporary construction fencing
- Covering all trucks transporting dust-producing materials and debris
- Removing loose and unsecured materials and debris from empty trucks prior to leaving the site
- Reducing truck speeds on unpaved surfaces
- Installing and maintaining tracking pads and wheel wash stations at access/egress gates
- Cleaning/sweeping Whitwell Street at the access/egress gate locations when soil material and debris are present as a result of the work
- Modifying the construction schedule when weather conditions can lead to dust impacts

#### 4.5 Noise Control

DELLBROOK JKS is committed to mitigating construction noise impacts. However, increased sound levels are an inherent consequence of demolition and construction activities. These activities require the use of equipment that will increase sound levels in and around the site. The best practices and mitigation measures available to DELLBROOK JKS to help reduce noise impacts include the following:

- Using less noisy alternate methods of construction
- Prohibiting material deliveries and noise generating activities prior to 7:00 AM
- Prohibiting truck and vehicle idling prior to 7:00 AM. After 7:00 AM, limiting truck and vehicle idling to no more than five (5) minutes
- Using equipment with manually adjusted or self-adjusting and directional back-up alarms
- Installing wind screen on temporary construction fencing to act as a sound barrier to muffle noise at street level
- Locating equipment as far as possible from bordering residential properties if feasible
- Applying noise deadening materials to trash chutes
- Using shields, shrouds, or intake and exhaust mufflers on vehicles and equipment
- Using electric equipment in lieu of diesel-powered equipment
- Using hydraulic tools in lieu of pneumatic impact tools
- Fitting air-powered equipment with pneumatic exhaust silencers



#### 4.6 Tree Protection

There are several trees along the property line scheduled to remain during construction. DELLBROOK|JKS will protect these trees in their current locations. Please refer to Figure 8 for tree protection details. Also, there is a "Memorial" tree and brick surround on the Western side of the site that will be removed and re-planted in a new location during the landscaping phase of the project.

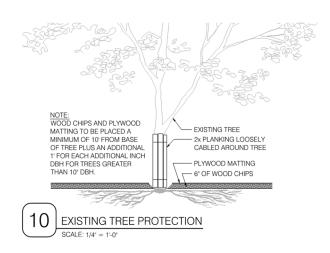


Figure 8 | Tree Protection

#### **SECTION 5 | HEALTH & SAFETY**

#### 5.1 Site-Specific Safety Plan

A Site-Specific Safety Plan (SSSP) will be developed to ensure all DELLBROOK|JKS team members fully understand the scope of work, safety hazards, and control measures associated with the project. The SSSP is intended to be an evolving document that will be updated as necessary to address conditions and hazards that develop throughout the life of the project.

Our goal is to complete the project injury and incident free. To achieve this goal, DELLBROOK|JKS will contract with subcontractor's who prioritize the health and safety of their employees. These subcontractors will be required to pro-actively manage their own health and safety to ensure they are maintaining a place of employment that is free from recognizable hazards. In addition, they will be required to comply with the following best practices:

- Submit a Site-Specific Safety Plan to DELLBROOK | JKS
- Attend a Safety Preconstruction Meeting two (2) weeks prior to starting work on-site
- Attend a Safety Orientation meeting with DELLBROOK | JKS before they will be allowed to work on-site
- Designate a safety representative who will be responsible for the Health and Safety Program of the subcontractor and any lower tier subcontractors working on-site
- Participate in Joint Safety/Production Meetings with DELLBROOK|JKS



- Perform regular site safety inspections for their scope of work and correct any and all identified unsafe acts and/or conditions
- Develop an Activity Hazard Analysis for tasks that are unique or not performed on a regular basis

#### 5.2 COVID-19 Protocols

DELLBROOK|JKS will follow the most recent version of the Sector Specific Workplace Safety Standards for Construction Sites dated July 24, 2020 to address COVID-19. The policies and procedures DELLBROOK|JKS will implement include the following:

- All staff, visitors, and workers will be screened prior to each shift. "Days of the Week" wrist bands will be utilized to identify workers who have been screened
- All staff, visitors, and workers will be required to wear face coverings at all times while on-site
- Workers will be prohibited from taking breaks or lunch together unless they can maintain 6'-0" of distance between themselves
- Meetings will be held remotely via Microsoft Teams or Zoom whenever possible. If a face to face meeting is required, face coverings will be worn at all times and 6'-0" of distance will be maintained
- Any construction tasks that require workers to be closer than 6'-0" will require face coverings, masks, and safety glasses

#### **SECTION 6 | COORDINATION WITH PUBLIC AGENCIES**

#### 6.1 DELLBROOK | JKS Contact Information

Robert Solon, Senior Superintendent, and Christopher Modica, Senior Project Manager, will be the primary contacts for DELLBROOK|JKS. They will be responsible for executing the work in a manner consistent with the measures identified in this Construction Management Plan (CMP). DELLBROOK|JKS will post contact information for all team members in the field office. The contact list will be updated as new members are added to the team. The contact information for the current team members is listed below.

NAME	ROLE	PHONE	E-MAIL
Christopher Modica	Senior Project Manager	617-874-6520	cmodica@dellbrookjks.com
Tim Dann	Project Manager	781-820-0981	tdann@dellbrookjks.com
Joel Anifowose	Assistant Project Manager	617-420-3500	janifowose@dellbrookjks.com
Robert Solon	Senior Superintendent	978-604-7772	rsolon@dellbrookjks.com
William Kopellas	Project Engineer	617-347-0574	wkopellas@dellbrookjks.com

#### 6.2 Public Notification

Prior to starting work DELLBROOK|JKS will meet with City officials to review the details of this construction management plan and all aspects of the project. Also, FoxRock Whitwell Realty and DELLBROOK|JKS will develop

Date: 11/23/2020



a communication plan for notifying the community of construction progress, milestones, and logistical changes that will affect the flow of vehicles and pedestrians on Whitwell Street.

#### 6.3 Permitting

DELLBROOK|JKS will obtain all necessary federal, state, and local permits and approvals and file all notifications required for the project. Please refer to Figure 9 for a list of permits and notifications that apply to this project.

Figure 9 | Permits & Notifications

Department/Agency	Description
Inspectional Services	Demolition Permit
	Site & Foundation Permit
	Building Permit
	Occupancy Permit
Fire Department	Demolition Permit
	Fire Prevention Program Manager Form
	Hot Work Permit
	Aboveground Storage Tank Removal Permit
	Underground Storage Tank Removal Permit
Public Works	Street Opening Permit
	Sewer & Drain Connection Permit
	Stormwater Management Permit
	Assignment of Street Number
Health	Swimming Pool Construction Permit
Environmental Protection (DEP)	AQ04 - Demolition/Abatement Notification
	AQ06 - Construction/Demolition Notification
Environmental Protection (EPA)	Construction General Permit (CGP) Notice of Intent (NOI)
Dig Safe	Notice of Excavation

#### 6.4 Coordination with City Departments

DELLBROOK JKS will coordinate demolition and construction activities with city departments in accordance with the Department of Planning and Community Development site plan approval conditions dated December 4, 2019. At any point during construction, the city and/or the city's designated representative will be allowed to enter the site for the purpose of making observations as to the compliance with the conditions of approval. Please refer to Figure 10 for a list of activities that will be coordinated with the city.



Figure 10 | Coordination with City Departments

Condition No.	Activity	Department	Milestone
4	Submission of Construction Management Plan (CMP)	Traffic Engineer	One (1) month prior to Construction
	Attendance at regularly scheduled meetings to coordinate construction activities		As scheduled
	Coordination of transportation-related construction impacts		Prior to work that will impact public transportation
	Submission of Traffic & Pedestrian Management Plan		Prior to work in the public right- of-way
6	Inspection of storm management system construction	Designated Representative	Multiple points during system construction
14	Inspection of erosion controls	Designated Representative	One (1) week prior to land disturbance activities
15	Observation of site construction for compliance w/approved Site Plans & conditions of approval	Designated Representative	Any point during construction
17	Written description of how planting soil will be manufactured from on-site components	Inspectional Services	Submission of building permit application
18	Description of irrigation system	Public Works	Prior to system installation
19	Notification of start of landscaping work	Designated Representative	One (1) week prior to starting landscaping work
21	Inspection of landscaping work	Designated Representative	Multiple points during landscaping work
31	Submission of Rodent Control Plan	Health	Prior to site activity
32	Submission of Dust Control Plan	Health	Prior to site activity
34 & GC-8	Consultation to review abatement work and monitoring measures	Health	Prior to starting abatement work
GC-7	Submission of Construction Management Plan (CMP)	Inspectional Services	Submission of demolition & building permit applications

#### 6.5 Identification of Existing Underground Utilities

DELLBROOK JKS will provide notice to the Dig Safe Center at least 72 hours but no more than 30 days prior to the start of excavation work in accordance with the "Dig Safe" law. Prior to giving notice, DELLBROOK JKS will direct the earthwork contractor to pre-mark not more than 500' of the proposed excavation with white paint and/or wood stakes. Within 72 hours of notification, the member utility companies will mark the location of their existing underground utilities in the vicinity of the pre-marked excavation.



#### 6.6 Demolition & Construction Fire Safety

DELLBROOK | JKS will submit NFPA 241 Fire Safety Plans to the Quincy Fire Department to detail the measures that will be taken to ensure code compliance and safe conditions during demolition of the Quincy Medical Center and construction of the Ashlar Park project. The following list outlines some of the measures that will be implemented by DELLBROOK | JKS during demolition and construction.

#### Demolition

- The perimeter of the site will be secured with fencing. Locked gates will be located along Whitwell Street. Key boxes will be provided for QFD use in case of an emergency
- Construction personnel will be on-site from 6:30 AM 3:30 PM. A security guard will monitor the site during off-hours from 3:30 PM – 6:30 AM
- Four (4) temporary manual dry standpipes will be provided around the building. Four (4) fire department connections will be provided to serve the temporary standpipes
- The building will be separated into three (3) sections for demolition. The building sections
  will be separated with temporary partitions consisting of fire-retardant treated plywood
  securely fastened to the building
- Flammable and combustible liquids will be drained from tanks and machinery reservoirs in a safe manner and removed from the building prior to demolition operations
- Prior to each phase of demolition, all utilities feeding the section of the building to be demolished will be de-energized/drained, cut, capped, and made safe
- A minimum of one (1) exit stair will be available from each wing of the building for egress at all times
- Regular site visits will be conducted with QFD to ensure the department is familiar with the changing site conditions

#### Construction

- The buildings <u>will not</u> be supplied with automatic sprinkler systems during construction. Each building will be provided with one (1) temporary standpipe located within an egress stairwell. The standpipe installation will follow the vertical progression of the building and will be capped at the top of the stairwell
- The buildings <u>will not</u> be supplied with an active fire alarm system during construction. Fire alarm reporting will be conducted via air horns located on each floor level. The phone number for QFD will be posted throughout the site to alert of a fire condition
- Fire extinguishers will be provided on all levels of each building
- A minimum of one (1) exit stair will be available from each wing of the building for egress at all times
- Construction debris will be removed from each building regularly. At no times will large quantities of construction debris be allowed to accumulate
- Permits will be filed with QFD for the storage of flammable and combustible liquids, gases, and solids. Flammable and combustible liquids will be stored in accordance with NFPA 30 and QFD requirements. The storage of flammable and combustible materials, including all subcontractor materials, will be coordinated with DELLBROOK JKS
- Hot work operations will be conducted in accordance with NFPA 51. All hot work will be approved by QFD and DELLBROOK JKS prior to beginning work
- Smoking will not be permitted within 50'-0" of buildings being constructed. Smoking will be
  permitted in designated smoking areas only. These areas will be provided with receptacles
  for safe disposal of smoking materials
- Regular site visits will be conducted with QFD to ensure the department is familiar with the changing site conditions

### **EXHIBIT A**

## Abatement & Demolition Phasing Plan - Phase O ASHLAR PARK



NOTES			

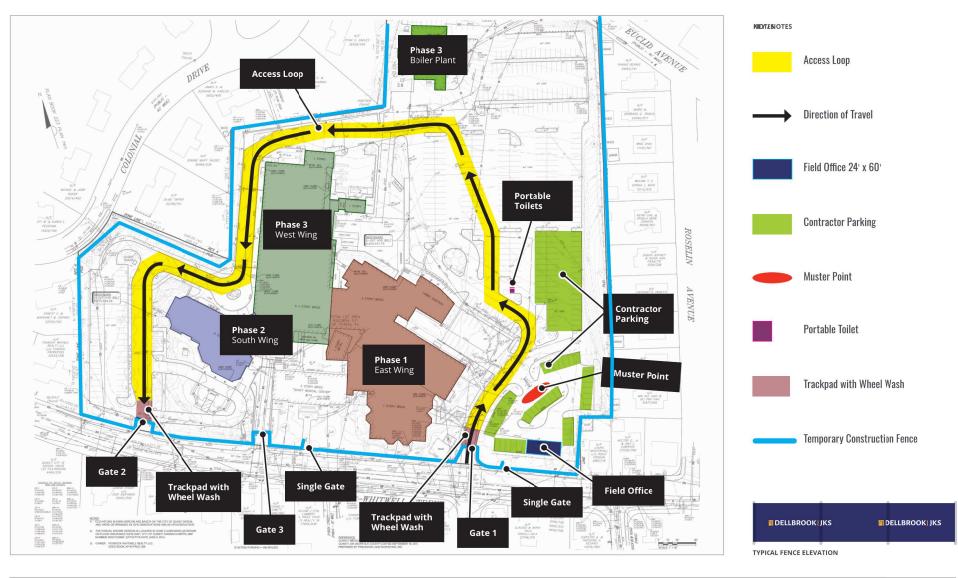
# Construction Phasing Plan ASHLAR PARK



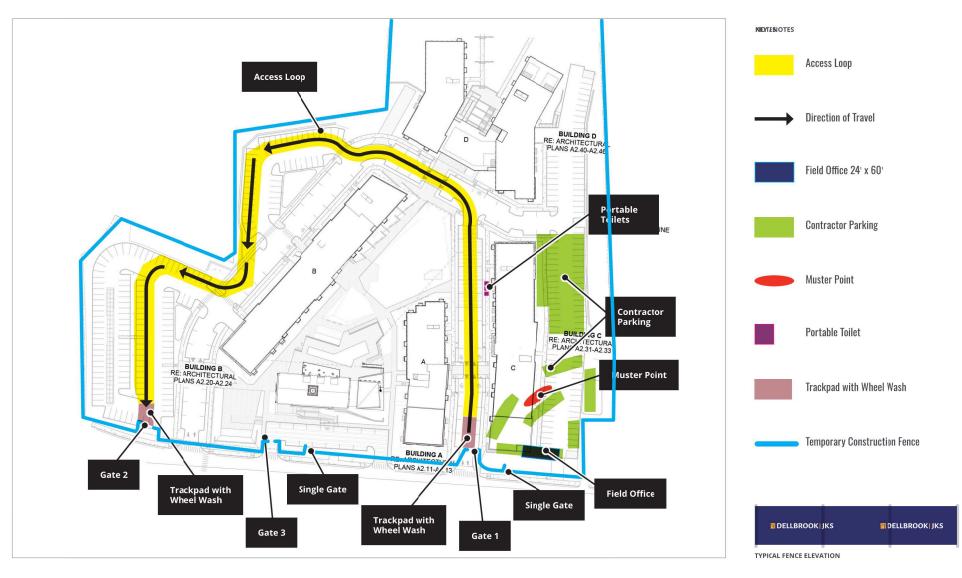
NOTES	

# **EXHIBIT B**

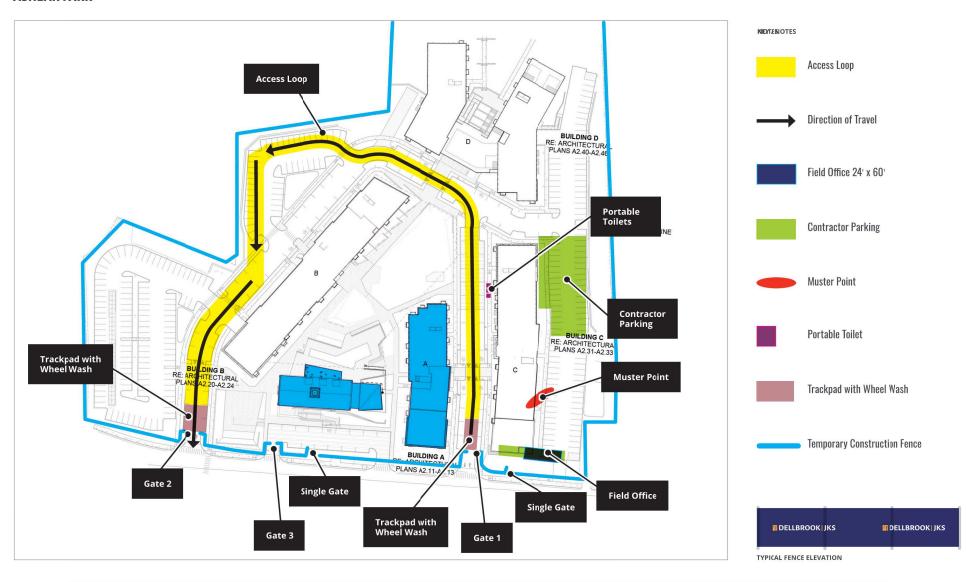
# **Logistics - Phase O Abatement & Demolition ASHLAR PARK**



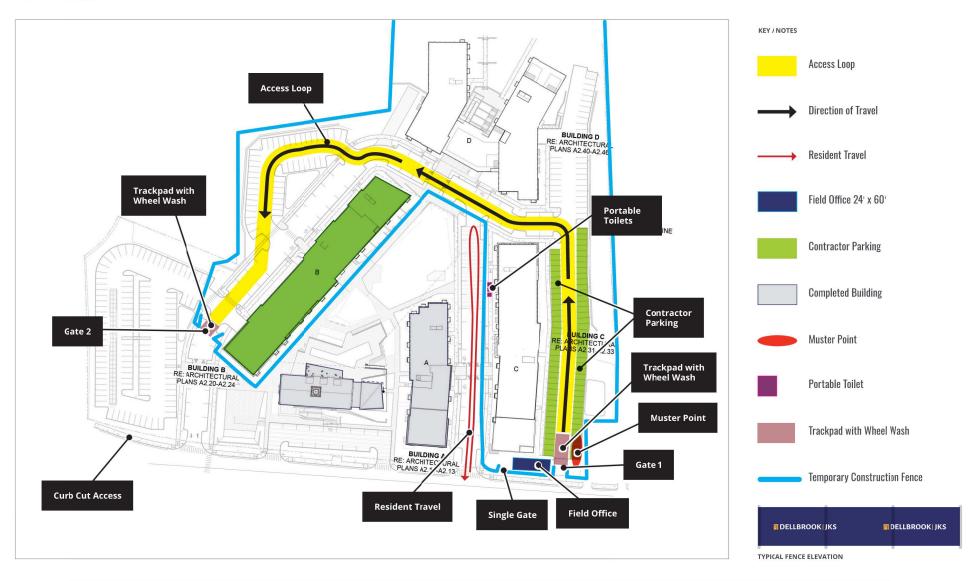
# Logistics - Phase 1A Construction of Building's B & D Garage Foundations & Podium Decks ASHLAR PARK



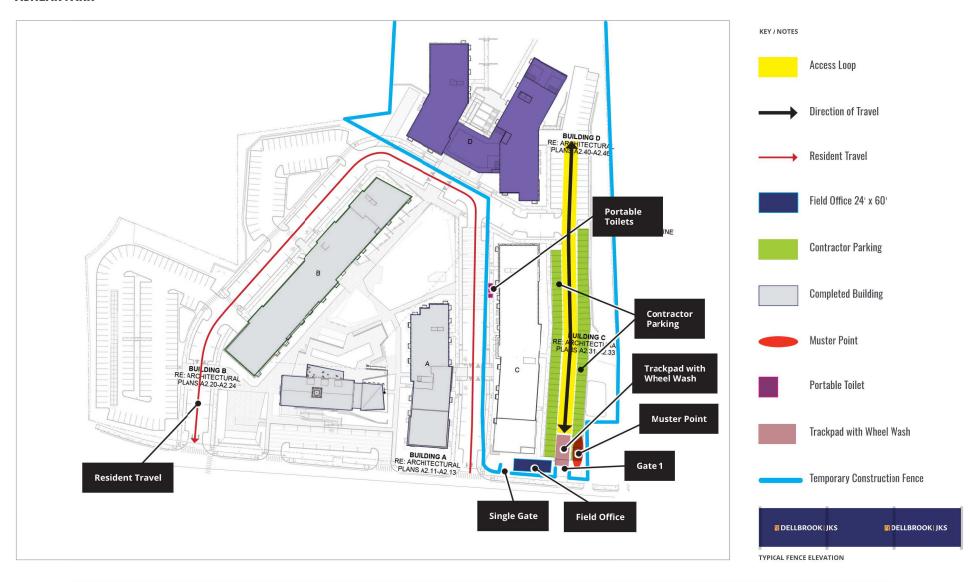
# Logistics - Phase 1A Construction of Building A with Surface Lot & Admin/Amenity Building ASHLAR PARK



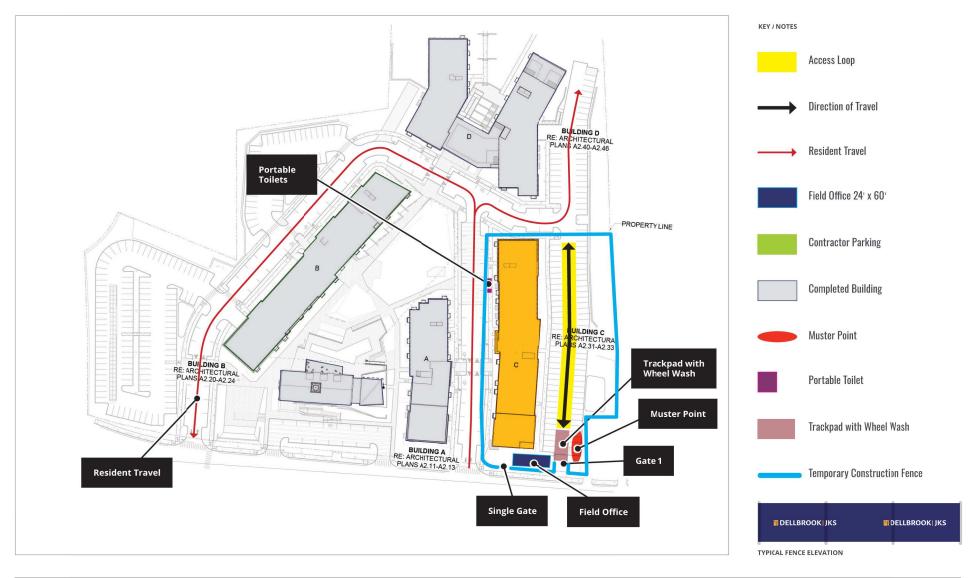
# **Logistics - Phase 1B Construction of Building B & Garage Finishes ASHLAR PARK**



# Logistics - Phase 2 Construction of Building D with Garage & Open Space Improvements ASHLAR PARK



# Logistics - Phase 3 Construction of Building C with Surface Lot ASHLAR PARK



# Health Department Package

- 1. Rodent Control Plan
- 2. Dust Control Plan
- 3. Phase 1 Abatement Close Out Report
- 4. DEP Notification

# **RODENT CONTROL PLAN**

Ashlar Park 114 Whitwell Street Quincy, MA 02169

Prepared By: DELLBROOK|JKS, LLC

One Adams Place 859 Willard Street Quincy, MA 02169

Prepared For: City of Quincy

**Date:** January 8, 2021 **Revision:** 1 | 01/13/2021



## **SECTION 1 | PROJECT SUMMARY**

### 1.1 Project Location

**Street Address:** 114 Whitwell Street

Latitude/Longitude Coordinates: 42° 15′ 6.65″ N, 71° 0′ 47.29″ W

Universal Transverse Mercator Coordinates: 4679701.10 N, 333932.48 E

1.2 Project Team

Owner: FoxRock Whitwell Realty, LLC

1200 Hancock Street, Suite 301

Quincy, MA 02169

Josh Kleinman, AIA, Director of Design & Construction

**Architect:** Arrowstreet Inc.

10 Post Office Square, Suite 700N

Boston, MA 02169

David Bois, AIA, Principal

Jason King, AIA, Senior Associate

**Civil Engineer:** Tetra Tech INE – United States Infrastructure Division

20 Cabot Boulevard, Suite 305

Mansfield, MA 02048

Richard D. Alfonso, Vice President

Glenn K. Dougherty, P.E., Senior Project Manager

General Contractor: DELLBROOK | JKS, LLC

One Adams Place 859 Willard Street Quincy, MA 02169

James Tracey, Executive Vice President

Christopher J. Modica, Senior Project Manager Ian Briggs, Vice President of Field Operations Robert Solon, Senior Project Superintendent

### 1.3 Construction Schedule

The project duration is expected to be thirty-six (36) months. There will be six (6) months of enabling work followed by thirty (30) months of construction. The enabling phase is expected to start in January 2021 with completion expected in July 2021. The construction phase is expected to begin in July 2021 with final completion expected in February 2024. Please refer to Figure 3 for milestone dates for enabling, construction, and building turn-over.



### Figure 3 | Milestone Dates

TASK NAME	START DATE	FINISH DATE
Enabling		
Abatement	01/04/21	04/16/21
Demolition	03/08/21	07/09/21
Construction	05/17/21	02/02/24
Closeout	01/01/24	03/01/24
Building Turn-Over		
Admin/Amenity Building, Building A, & Surface Parking Lot	Α	02/10/23
Building B, Garage, & Surface Parking Lot B		05/12/23
Building D, Garage, Surface Parking Lot D, & Open Space In	nprovements	08/11/23
Building C & Surface Parking Lot C		02/02/24
Final Completion		02/02/24

### **SECTION 2 | RODENT CONTROL**

#### 2.1 Rodent & Pest Control Operator

DELLBROOK | JKS has engaged Ladybug Pest Control Services, Inc. (Ladybug Pest Control) to provide rodent and pest control services. Ladybug Pest Control is licensed and insured to provide these services in the State of Massachusetts.

### Ladybug Pest Control Services, Inc.

44 Billings Road

North Quincy, MA 02171

Tel: 617-745-0044

Fax: 617-745-0808

Linda O'Brien-Lindsay, Chief Executive Officer

E-Mail: Linda@Ladybugpcs.com

License #CC-0025279 Expiration: 12/31/2021

## 2.2 Scope of Services

Ladybug Pest Control will provide all labor, materials, equipment, tools, services, supervision, and transportation necessary to perform rodent and pest control services in accordance with all applicable codes, Federal, State and Local laws and ordinances, EPA regulations, and all authorities having jurisdiction. The rodent and pest control scope of services includes the following:

Service Dates: February 22, 2021 - February 2, 2024

Service Length: 155 Weeks

Number of Bait Stations: Phase 0 - 160 EA

Phase 1A - 160 EA
Phase 1B - 150 EA

Date: 01/08/2021 Rodent Control Plan Page | 2
Revision: 1 | 01/13/2021 Ashlar Park | 114 Whitwell Street



Phase 2 - 120 EA Phase 3 – 60 EA

Location: Every 20'-0" around the perimeter of the site delineated by the

location of the temporary construction fencing

Frequency of Monitoring: Every ten (10) business days

Note: The quantity of bait stations and frequency of monitoring will be increased as needed based on the level of rodent and pest activity

### 2.3 Rodent & Pest Management Plan

The Rodent and Pest Management Plan will be implemented on February 22, 2021, ten (10) business days prior to the start of building demolition on March 8, 2021. The plan will remain effect until February 2, 2024, twenty (20) business days after substantial completion on January 5, 2024. The rodent and pest management plan includes the following:

- Provide 160 PROTECTA Evo tamper-resistant bait stations manufactured by Bell Laboratories, Inc. The
  bait stations will be placed every 20'-0" around the perimeter of the site and secured to the temporary
  construction fencing. The site limits will change after each phase of work; however, the bait stations
  will continue to be placed every 20'-0" around the perimeter. The site limits for each phase of work are
  delineated by the location of the temporary construction fencing on the attached Logistics Plans
- Provide Contrac Blox single-feeding anticoagulant rodenticide blocks manufactured by Bell Laboratories, Inc. An uninterrupted ten (10) day supply of fresh bait will be provided in each bait station. The quantity of rodenticide blocks necessary to provide an uninterrupted ten (10) day supply will be based on the manufacturer's product information
- Inspect and maintain bait stations every ten (10) business days and re-bait stations as needed.
   Inspection and maintenance services will be increased as needed based on the level of rodent and pest activity observed during treatment, changes in rodent populations, and rodent related complaints due to demolition and construction activities
- Provide and maintain a logbook on-site to document all inspection and maintenance visits. The logbook
  will be available for inspection by a representative of the Quincy Health Department and/or
  Inspectional Services Department. The logbook will include a diagram of the property showing the
  locations of all bait stations, MSDS for the pesticides being used, and license and insurance information
  for Ladybug Pest Control
- Provide rodent and pest control reports within five (5) business days after treatment documenting the location of treatments, percentage of bait consumed, and any rebaiting or rodent control related activities

#### 2.4 Summary of Actions to Prevent Rodent & Pest Problems On-Site

DELLBROOK JKS will take the following actions to mitigate rodent and pest problems on-site.

#### Action Description

1 Review job site sanitation rules with workers prior to starting work on site. Review and reinforce the rules weekly at Foreman and Subcontractor meetings for the duration of the project



- Clean-up construction and laydown areas daily. Maintain the areas free of trash and 2 debris
- 3 Clean-up the perimeter of the site on a regular basis. Maintain the perimeter free of trash and debris
- Provide an adequate amount of refuse containers with tight fitting lids throughout the 4 site. Enforce proper use of refuse containers to prevent attraction of rodents and pests
- 5 Provide refuse containers with tight fitting lids at lunch and break areas. Empty and clean the refuse containers daily
- 6 Prohibit lunch and break areas inside buildings. Consolidate lunch and break areas to designated locations on the exterior of the buildings

# COMMONWEALTH OF MASSACHUSETTS



Department of Agricultural Resources

PESTICIDE CERTIFICATION/LICENSE

LINDA O'BRIEN-LINDSAY

44 BILLINGS ROAD SUITE B

NORTH QUINCY, MA 02171

License Type

Commercial

License Number

CC-0025279

Date Issued

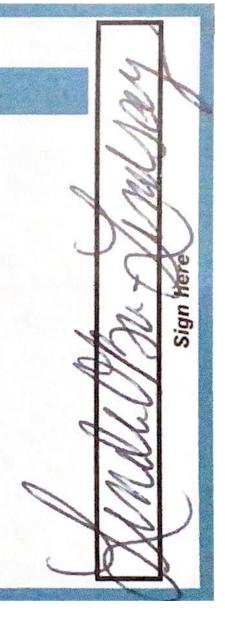
12/26/2020

**Expiration Date** 

12/31/2021

Category/Subcategory

43, 41





OP ID: BC

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 06/18/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed.

	SUBROGATION IS WAIVED, subject nis certificate does not confer rights to							require an endorsement	. As	tatement on
PRC	DUCER			'-479-5500		Elizabeth				
DPS	S Insurance Group, Inc. Crown Colony Dr., Ste 103				PHONE (A/C, No, E	617_47	9-5500	FAX (A/C No):	617-4	79-8761
Qui	ncy, MA 02169				E-MAIL	ESaville	@dpsinsur	ancegroup.com		
Dar	nieľ P Sullivan				ADDRESS			DING COVERAGE		NAIC#
					INCLIDED			ance Company		NAIO#
INSI	IRED				INCUDED	B. Arbella	Insurance	unios sompany		41360
Lad	ybug Pest Control Services 1a O'Brien-Lindsay Billings Rd th Quincy, MA 02171				INCUDED	Wesco	Insurance	Со		
44B	Billings Rd				INCUDED	Starsto	ne Nationa	I Ins. Co		
1101	in Quincy, MA 02171				INSURER					
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	VERAGES CER	TIFI	^ A T F	NUMBER:	INCORLIN			REVISION NUMBER:		
T IN C	HIS IS TO CERTIFY THAT THE POLICIES NDICATED. NOTWITHSTANDING ANY RETRIFICATE MAY BE ISSUED OR MAY XCLUSIONS AND CONDITIONS OF SUCH	OF QUIF PERT POLI	INSUF REME AIN, CIES.	RANCE LISTED BELOW HA NT, TERM OR CONDITION THE INSURANCE AFFORD LIMITS SHOWN MAY HAVE	OF ANY DED BY THE BEEN RE	CONTRACT HE POLICIES DUCED BY	THE INSURE OR OTHER I S DESCRIBEI PAID CLAIMS	ED NAMED ABOVE FOR THE DOCUMENT WITH RESPECT TO HEREIN IS SUBJECT TO	CT TO	WHICH THIS
INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	F (M	POLICY EFF IM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	5	
Α	X COMMERCIAL GENERAL LIABILITY							EACH OCCURRENCE	\$	2,000,000
	CLAIMS-MADE X OCCUR			PHPK2138319	0	5/24/2020	05/24/2021	DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	100,000
Α	χ Pesticide Liab.			PHPK2138319	0	5/24/2020	05/24/2021	MED EXP (Any one person)	\$	5,000
								PERSONAL & ADV INJURY	\$	2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREGATE	\$	4,000,000
	POLICY PRO- JECT LOC							PRODUCTS - COMP/OP AGG	\$	4,000,000
	OTHER:							Pesticide	\$	2,000,000
В	AUTOMOBILE LIABILITY							COMBINED SINGLE LIMIT (Ea accident)	\$	1,000,000
	ANY AUTO			1020096694	05/24/2020 05/	05/24/2021	BODILY INJURY (Per person)	\$		
	OWNED AUTOS ONLY X SCHEDULED AUTOS							BODILY INJURY (Per accident)	\$	
	X HIRED AUTOS ONLY X NON-OWNED AUTOS ONLY							PROPERTY DAMAGE (Per accident)	\$	
									\$	
D	UMBRELLA LIAB X OCCUR							EACH OCCURRENCE	\$	1,000,000
	EXCESS LIAB CLAIMS-MADE			86203W200ALI	0	6/02/2020	05/24/2021	AGGREGATE	\$	1,000,000
	DED X RETENTION \$ 10,000								\$	
С	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY							X PER OTH-ER		
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	N/A		WWC3475438	0	5/24/2020	05/24/2021	E.L. EACH ACCIDENT	\$	1,000,000
		N / A						E.L. DISEASE - EA EMPLOYEE	\$	1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below							E.L. DISEASE - POLICY LIMIT	\$	1,000,000
	CRIPTION OF OPERATIONS / LOCATIONS / VEHICE CONTROL	LES (A	ACORE	0 101, Additional Remarks Schedu	ule, may be a	attached if mor	e space is requir	red)		
<u> </u>	DTIFICATE LIQUED				CANCE	U ATION				
CE	RTIFICATE HOLDER			EVIDENC	CANCE	LLATION				
	Evidence of Coverage			21102110	THE	EXPIRATION	N DATE THE	ESCRIBED POLICIES BE C EREOF, NOTICE WILL E Y PROVISIONS.		
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	1									

ACORD



 $DBE\ Certification\ Of\!fice\ |\ MassUCP$ 

July 31, 2019

Ms. Linda O'Brien **Ladybug Pest Control Services, Inc.** 44 Billings Road, Suite B North Quincy, MA 02171

This letter serves as sole and exclusive proof of your firm's DBE certification

Dear Ms. O'Brien:

Congratulations! The Massachusetts Unified Certification Program (MassUCP), is pleased to notify you that we have renewed your company as a disadvantaged business enterprise (DBE). Your company continues to be assigned NAICS Code(s) 561710 with the certified business description of COMMERCIAL AND RESIDENTIAL EXTERMINATION OF ROACHES, MICE, RATS, FLEAS, EARWIGS AND ALL HOUSEHOLD PESTS and will remain listed in our certified business directory.

As a DBE, you must inform MassUCP in writing of any change in circumstances affecting your ability to meet size, disadvantaged status, ownership, control requirements or any material change in the information provided in your application form. Changes in management responsibility among members of a limited liability company are covered by this requirement. You must attach supporting documentation describing in detail the nature of such changes. The notice must take the form of an affidavit sworn to by the owners of the firm before a person who is authorized by state law to administer oaths or of an un-sworn declaration executed under penalty of perjury of the laws of the United States. You must provide the written notification within 30 days of the occurrence of the change. If you fail to make timely notification of such a change, you will be deemed to have failed to cooperate under 49 CFR 26.109(c).

To renew your firm's DBE certification and if it continues to meet the applicable criteria, on or before your firm's certification anniversary date of **August 28**, **2020**, and each year thereafter, please send the MassUCP the following documents:

- (1) No Change Affidavit (will be sent with reminder letter)
- (2) A <u>signed</u> copy of your company's, and all of its affiliates', U.S. Tax Returns including all schedules and attachments for the year(s) indicated.
- (3) A <u>signed</u> copy of your personal tax returns for years(s) indicated.
- (4) If a sole proprietor, a signed copy of your Schedule C. for year(s) indicated.
- (5) A <u>statement</u> of the <u>number only</u> of full and part-time employees (including owner) for each year indicated.

If you have changed your company name or address, please notify Ms. Nedra D. White, in writing on the company's letterhead in order to update your state vendor file.

MassUCP reserves the right to monitor, perform random spot checks, re-evaluate the firm or revoke the firm's certification if it no longer meets the certification criteria.

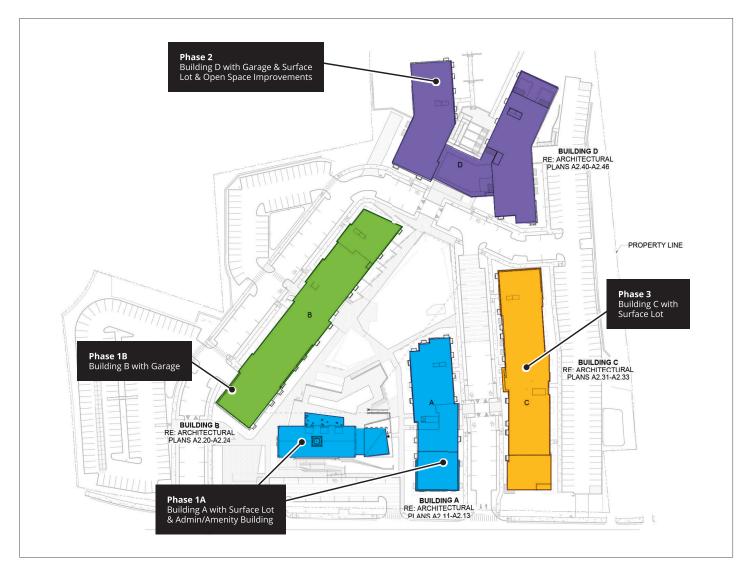
During the period of your certification, if you have further questions regarding annual review, please contact Ms. Nedra D. White, Director, MassUCP at (857) 368-8659.

Very truly yours,

ledra D. White, Director

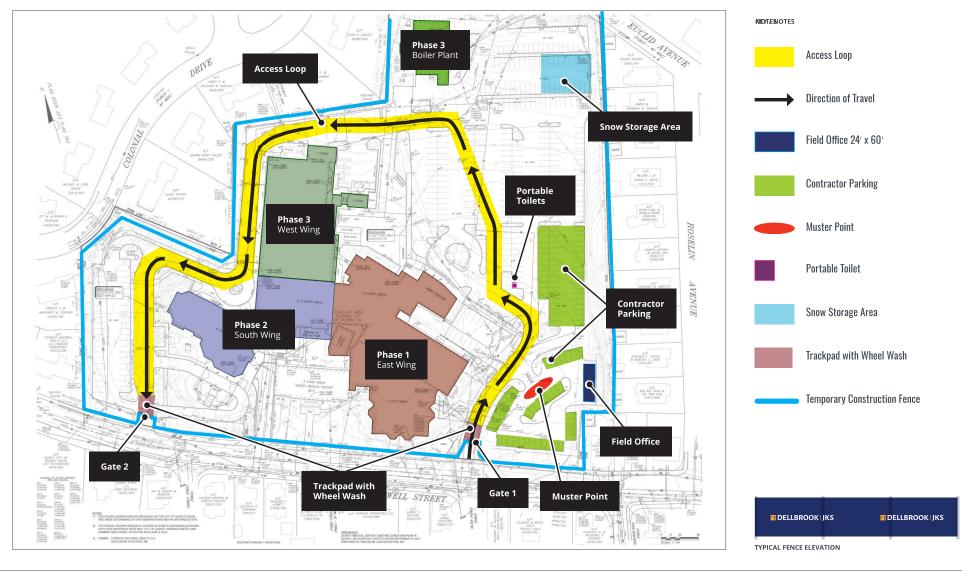
MassUCP/DBE Certification Program

# Construction Phasing Plan ASHLAR PARK

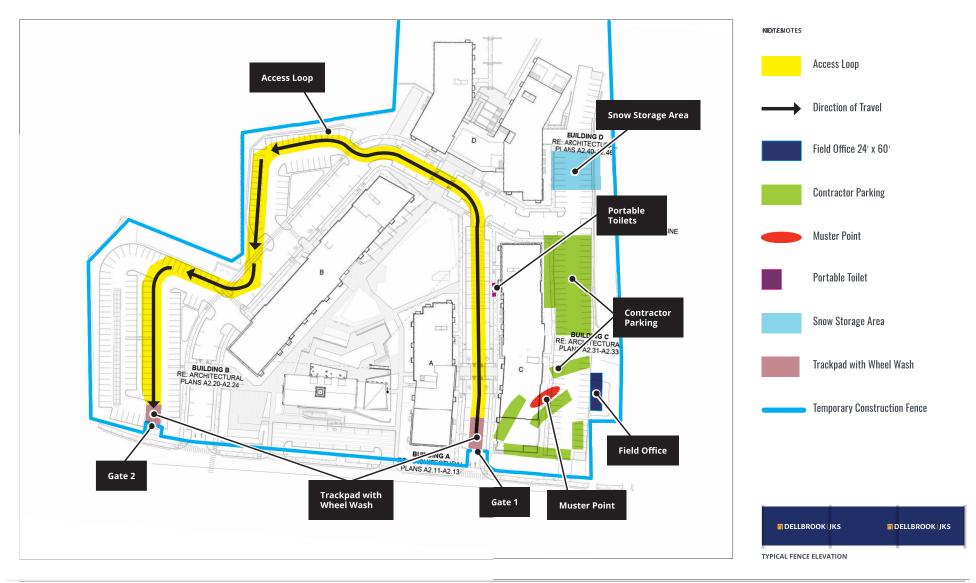


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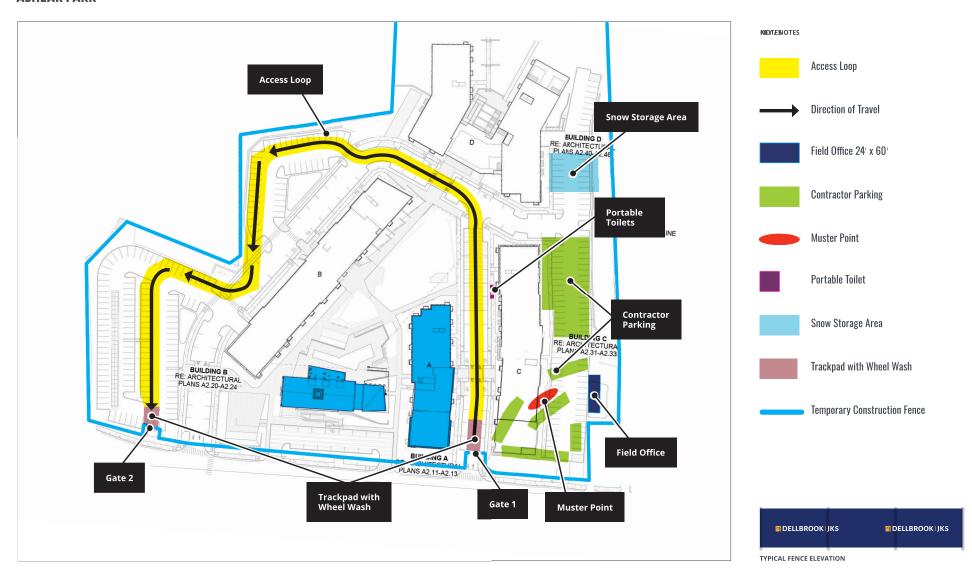
# Logistics - Phase O Abatement & Demolition ASHLAR PARK



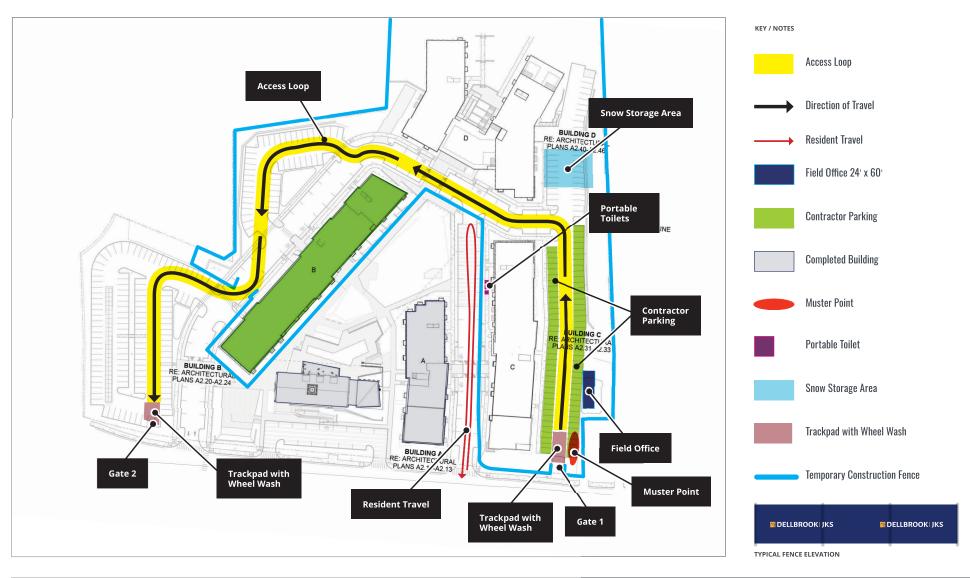
# Logistics - Phase 1A Construction of Building's B & D Garage Foundations & Podium Decks ASHLAR PARK



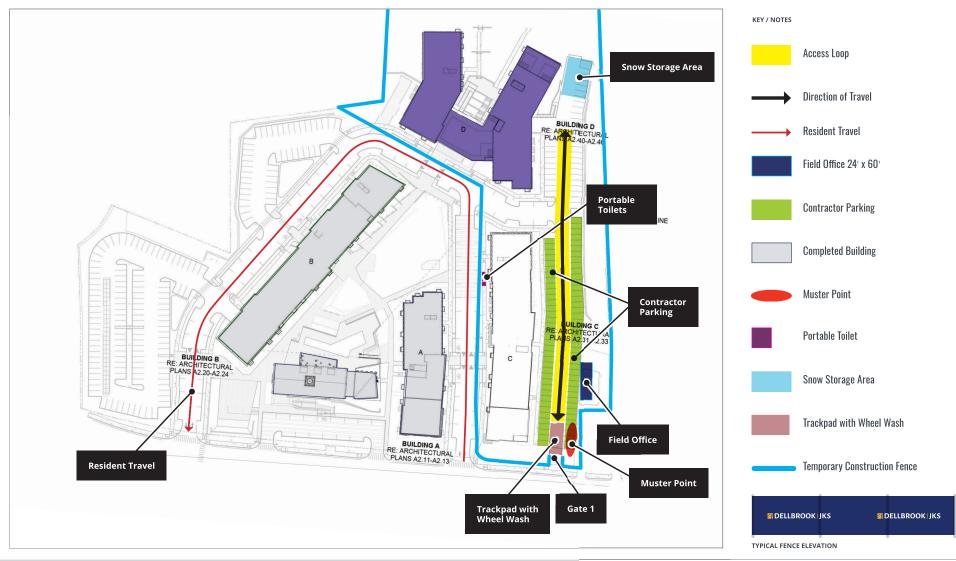
Logistics - Phase 1A Construction of Building A with Surface Lot & Admin/Amenity Building ASHLAR PARK



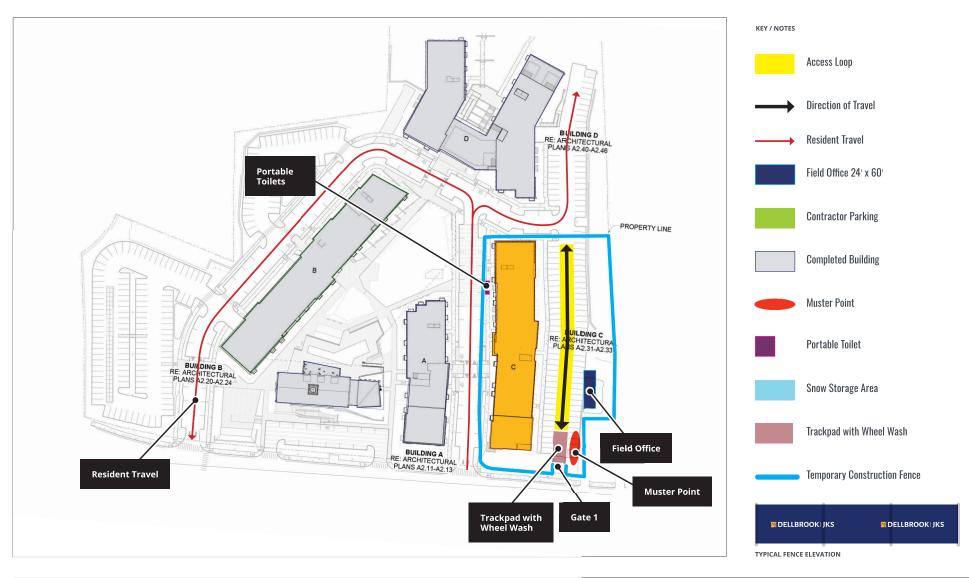
# Logistics - Phase 1B Construction of Building B & Garage Finishes ASHLAR PARK



Logistics - Phase 2 Construction of Building D with Garage & Open Space Improvements ASHLAR PARK



Logistics - Phase 3 Construction of Building C with Surface Lot ASHLAR PARK





# PRODUCT GUIDE















THE WORLD

LEADER IN

RODENT

CONTROL

TECHNOLOGY®



# PROTECTA® EVO®

# **EXPRESS**

- ▶ Weighted station with removable tray for easy cleaning
- ► Single locking mechanism for quick servicing
- Ramped entry keeps kids and non-target animals from reaching bait/traps
- Can hold 2 T-Rex rat traps, 2 Mini-Rex mouse traps or 4 vertical bait rods
- ▶ Dog & child tamper-resistant

#### PACKAGING:

Each EVO Express includes station, brick, tray, securing rods & service card. Ships in pallet quantities.

Available in black and gray



Protecta Evo Express Black
Protecta Evo Express Black
Protecta Evo Express Black (2/case)
Protecta Evo Express Gray

Code DIMENSIONS (in)

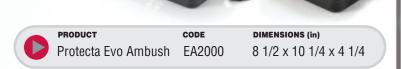
12 x 10 x 6 1/4
EV8400
12 x 10 x 6 1/4
EV8801
12 x 10 x 6 1/4

# **AMBUSH**

- Single locking mechanism for quick servicing
- ▶ Removable tray for easy cleaning
- ► Low-profile but accommodates TRAPPER T-Rex Rat Trap
- ► Compatible with Sidekick Load-N-Lock system
- Dog & child tamper-resistant

## PACKAGING:

6 stations per case with bait securing rods, tray and service card



# **CIRCUIT**

- Built-in disguise includes connectors to make station simulate an electrical box; great for sensitive accounts
- ► Can be used horizontally or vertically
- ► Single locking mechanism for quick servicing
- Removable tray for easy cleaning
- ▶ Dog & child tamper-resistant

### PACKAGING:

6 stations per case with plastic connectors, bait securing rods (horizontal & vertical), tray and service card



Protecta Evo Circuit Gray

CODE

DIMENSIONS (in)

9 x 9 1/2 x 4



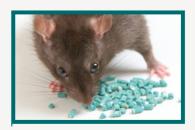
# REFERENCE GUIDE

		$\sim$	$\cdots$				
	DETEX WITH LUMITRACK	CONTRAC®	CONTRAC® WITH LUMITRACK	DITRAC®	DITRAC® TRACKING POWDER	FASTRAC®	FINAL°
BAIT FORM	DETEX  ONLY  ONLY	CONTRAC Pelleted;	CONTRAC CONTRAC	DITRAC	Percent DITRAC Trade Property Control of the Contro	FASTRAC  FASTRAC  SAME AND THE	FINAL MILLS MATT A SET
ı	Blox; Soft Bait	Meal; Blox; Super-Size Blox; Soft Bait	Blox	Blox; Cake	Tracking Powder	Pelleted; Blox	Soft Bait; Pelleted; Blox
ACTIVE INGREDIENT	None	Bromadiolone (Single-feeding anticoagulant)	Bromadiolone (Single-feeding anticoagulant)	Diphacinone (Anticoagulant)	Diphacinone (Anticoagulant)	Bromethalin (Acute)	Brodifacoum (Single-feeding anticoagulant)
CONTROLS	Monitors rodent activity	Norway & roof rats, house mice, deer mouse, cotton mouse, white footed mouse, meadow vole, & non-com- mensal rodents listed on label	Norway & roof rats, house mice, meadow vole, & non- commensal rodents listed on label	Norway & roof rats, house mice, meadow vole, & non- commensal rodents listed on label	Norway & roof rats; house mice	Norway & roof rats, house mice, meadow vole, & non- commensal rodents listed on label	Norway & roof rats, house mice, meadow vole, & non-commensal rodents listed on label
SITE	Indoors/ outdoors	Indoors/outdoors; Wet & dry areas (Blox)	Indoors/ outdoors	Indoors/outdoors; Wet & dry areas	Indoors/ outdoors	Indoors/ outdoors	Indoors/ outdoors
PRODUCT FEATURES	Lumitrack incorporated; makes feces glow under UV light     Non-toxic for monitoring rodent activity	Kills warfarin—     resistant Nor-     way rats     Single-feed     anticoagulant     Proven rodent     acceptance  USDA approved*	Lumitrack incorporated; makes feces glow under UV light for identification & tracking purposes     Single-feed anticoagulant	Mold & moisture resistant Proven rodent acceptance Unique gnawing edges	<ul> <li>Restricted use product</li> <li>Carrier adheres to rodents' fur</li> <li>Rodents consume when grooming</li> </ul>	Knockdown power     Kills rats and mice in 2 or more days after consuming a toxic dose	Contains the powerful active ingredient Brodifacoum     Designed to control tough to control mouse populations
USES	Monitoring bait     Maintenance	All baiting situations – wet or dry (Blox)     Maintenance     Clean out	Monitoring     Tracking     Clean out     Maintenance	All baiting situations – wet, damp & dry (Blox & Cake)     Perimeter baiting	<ul> <li>Perimeter burrow application</li> <li>Indoor use in secluded areas</li> </ul>	<ul> <li>All baiting situations – wet (Blox) or dry</li> <li>Faster clean out than with anticoagulant baits</li> </ul>	Clean out     Maintenance

# CONTRAC®



# THE BEST CHOICE FOR ALL-AROUND CONTROL







## **PRODUCT FEATURES:**

- Contains the single-feed, second-generation anticoagulant, bromadiolone, for optimal control of rats, mice and non-commensal rodents
- ▶ Formulated with food-grade ingredients for outstanding rodent acceptance and control
- Effective control indoors and out; an excellent, all-purpose bait
- Available in a variety of bait forms: Blox, pellets, meal and place pacs
- Available in a 1-lb City Pack for easy transportation and inventory control

PRODUCT	CODE	CASE QTY	
Contrac Blox	CB4047	4 lb. pail - 4 per case	
Contrac Blox	CB4051	18 lb. pail	
Contrac Blox	CB1616		
Contrac Super Blox	CB4040	40 x 8 oz. carton	
Contrac Pellets	CP4082		
Contrac Pellets		174 x 1.5 oz. carton	
Contrac Pellets	CP2925	291 x 25 gm carton	
Contrac Meal		25 lb. pail	
Contrac Meal	CM1715	174 x 1.5 oz. carton	



THE WORLD LEADER IN RODENT CONTROL TECHNOLOGY®

Madison, Wisconsin 53704 USA I Ph: (608) 241-0202 I Fax: (608) 241-9631

www.belllabs.com

# **CONTRAC®**

# **Proven Rodent Acceptance**

- ► Contains the single-feeding anticoagulant Bromadiolone
- ► Formulated with an optimal blend of ingredients and low wax content for high palatability and weatherability
- Ideal choice for all-around control



PACKAGING: 4 lb. & 18 lb. plastic pails, 1 lb. pouch – EPA REG. NO. 12455-79



PACKAGING:

40 per case – EPA REG. NO. 12455-82



PACKAGING:

25 lb. plastic pail – EPA REG. NO. 12455-69 174 x 1.5 oz. place pacs – EPA REG. NO. 12455-76 291 x 25 gm. place pacs – EPA REG. NO. 12455-86



PACKAGING:

25 lb. plastic pail – EPA REG. NO. 12455-36 174 x 1.5 oz. place pacs – EPA REG. NO. 12455-75



PACKAGING: 16 lb. plastic pail – EPA REG. NO. 12455-146

# **BLOX**<sup>®</sup>



 PRODUCT
 CODE
 1 oz BLOX DIMENSIONS (in)

 4 lb. Pail x 4/case
 CB4047
 1 3/4 x 1 x 1

 18 lb. Plastic Pail
 CB4051
 1 3/4 x 1 x 1

 1 lb. City Pack Bag
 CB1616
 1 3/4 x 1 x 1

# SUPER BLOX®



40 x 8 oz. Ctn.

CODE CB4040 8 oz. BLOX DIMENSIONS (in) 3 3/4 x 1 7/8 x 1 7/8

# **PELLETS**



 PRODUCT
 CODE
 PLACE PAC DIMENSIONS (in)

 25 lb. Plastic Pail
 CP4082
 N/A

 174 x 1.5 oz. Ctn.
 CP1715
 4 7/8 x 3 x 5/8

 291 x 25 gm. Ctn.
 CP2925
 4 7/8 x 2 3/16 x 5/8

# MEAL



PRODUCT
25 lb. Plastic Pail
174 x 1.5 oz. Ctn.

CODE PL CM4058 N/

PLACE PAC DIMENSIONS (in)

CM1715 4 7/8 x 3 x 5/8

# **SOFT BAIT**



PRODUCT

16 lb. Plastic Pail

CODE CS1016 SACHET DIMENSIONS (in)  $2.1/2 \times 1.3/8 \times 1/4$ 

# CONTRAC® WITH LUMITRACK

# **Identify, Track & Eliminate Rodents**

- ► Contains the single-feeding anticoagulant Bromadiolone
- ▶ Lumitrack makes rodent droppings illuminate under black or UV light for easy detection
- ► Aids in the tracking of entry points, pathways and nesting areas to improve your baiting strategy and strengthen your IPM program while controlling the rodent population in the process



PACKAGING: 4 lb. & 18 lb. plastic pails – EPA REG. NO. 12455-133

# **BLOX**<sup>®</sup>



4 lb. Pail x 4/case 18 lb. Plastic Pail CL4040 CL1018 1 oz. Blox DIMENSION (in) 1 3/4 x 1 x 1

)40 | 13/4 x 1 x 1 )18 | 13/4 x 1 x 1



# CONTRAC®ALL-WEATHER BLOX

## SAFETY DATA SHEET

ACCORDING TO REGULATION: OSHA

DATE OF ISSUE:

PREPARED BY:

January 2015

CAR

# 1. PRODUCT AND COMPANY IDENTIFICATION

Hazard Communication Standard 29 CFR 1910.1200

Product Identifier: CONTRAC® ALL-WEATHER BLOX

**EPA Registration Number: 12455-79** 

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Anticoagulant Rodenticide - Ready to use Uses advised against: Use only for the purpose described above

### MANUFACTURER/SUPPLIER:

Bell Laboratories, Inc. 3699 Kinsman Blvd. Madison, WI 53704, USA Email: sds@belllabs.com Phone: 608-241-0202

Medical or Vet Emergency: 877-854-2494 or 952-852-4636 Spill or Transportation Emergency: 800-424-9300 (CHEMTREC)

## 2. HAZARD IDENTIFICATION

Classification according to Regulation OSHA 1910.1200(d): Not classified

See Section 15 for information on FIFRA applicable safety, health, and environmental classifications.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS Component CAS No. % By weight **Bromadiolone** [3-[3-(4'-Bromo-[1,1'-biphenyl]-4-yl)-3-hydroxy-1-phenylpropyl]-4-28772-56-7 0.005% hydroxy-2H-1-benzopyran-2-one] **Inert and Non-Hazardous Ingredients** 99.995% **Proprietary**

## 4. FIRST AID MEASURES

## **Description of first aid measures**

**Ingestion:** Call physician or emergency number immediately. Have person sip a glass of water if able to swallow. Do not induce vomiting unless instructed by physician.

Inhalation: Not applicable.

Eye contact: Hold eye open and rinse slowly with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If irritation develops, obtain medical assistance.

**Skin contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. If irritation develops, obtain medical assistance.

### Most important symptoms and effects, both acute and delayed

Ingestion of excessive quantities may cause nausea, vomiting, loss of appetite, extreme thirst, lethargy, diarrhea, bleeding.

**Advice to physician:** If ingested, administer Vitamin  $K_1$  intramuscularly or orally as indicated for bishydroxycoumarin overdoses. Repeat as necessary as based upon monitoring of prothrombin times.

Advice to Veterinarian: For animals ingesting bait and/or showing poisoning signs (bleeding or elevated prothrombin times), give Vitamin K<sub>1</sub> If needed, check prothrombin times every 3 days until values return to normal (up to 30 days). In severe cases, blood transfusions may be needed.

Trade Name: Contrac All-Weather Blox Date Created: January 2015 Supplier: Bell Laboratories, Inc.

Page 1 of 4

## 5. FIRE-FIGHTING MEASURES

## **Extinguishing media**

Suitable Extinguishing Media: water, foam or inert gas.

Unsuitable Extinguishing Media: None known.

**Special hazards arising from the mixture:** High temperature decomposition or burning in air can result in the formation of toxic gases, which may include carbon monoxide and traces of bromine and hydrogen bromide.

**Advice for firefighters:** Wear protective clothing and self-contained breathing apparatus.

# 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**: Gloves should be worn when handling the bait. Collect spillage without creating dust.

**Environmental precautions:** Do not allow bait to enter drains or water courses. Where there is contamination of streams, rivers or lakes contact the appropriate environment agency.

# Methods and materials for containment and cleaning up

For Containment: Sweep up spilled material immediately. Place in properly labeled container for disposal or re-use.

**For Cleaning Up:** Wash contaminated surfaces with detergent. Dispose of all wastes in accordance with all local, regional and national regulations.

**Reference to other sections:** Refer to Sections 7, 8 & 13 for further details of personal precautions, personal protective equipment and disposal considerations.

# 7. HANDLING AND STORAGE

**Precautions for safe handling**: Do not handle the product near food, animal foodstuffs or drinking water. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Conditions for safe storage, including any incompatibilities: Store only in original container in a cool, dry place, inaccessible to pets and wildlife. Do not contaminate water, food or feed by storage or disposal. Keep containers closed and away from other chemicals.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Established Limits**

Component	OSHA	ACGIH	Other Limits
Bromadiolone	Not Established	Not Established	Not Established

**Appropriate Engineering Controls:** Not required **Occupational exposure limits:** Not established

**Personal Protective Equipment: Respiratory protection:** Not required

Eye protection: Not required

Skin protection: Shoes plus socks, and waterproof gloves.

Hygiene recommendations: Wash thoroughly with soap and water after handling.

Trade Name: Contrac All-Weather Blox
Supplier: Bell Laboratories, Inc.
Date Created: January 2015
Page 2 of 4

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

**Appearance/Color: Odor:**Blue wax block
Sweet grain-like

**Odor Threshold:** Not applicable, odor not associated with a hazardous material.

**pH:** Not applicable, Contrac All-Weather Blox is not dispersible with water.

Melting point: Not applicable to rodenticide bait Boiling point: Not applicable to rodenticide bait

**Flash point:** Not applicable, Contrac All-Weather Blox does not contain components classified as flammable.

**Evaporation rate:** Not applicable, Contrac All-Weather Blox is a solid.

**Upper/lower flammability or** Not applicable, Contrac All-Weather Blox does not contain components classified as flammable or

**explosive limits:** explosive.

Vapor Pressure: Not applicable to rodenticide bait
Vapor Density: NA: Contrac All-Weather Blox is a solid

**Relative Density:** 1.13 g/mL @ 20°C **Solubility (water):** Not water soluble

Solubility (solvents): Not applicable to rodenticide bait Partition coefficient: n
Not applicable to rodenticide bait

octanol/water:

**Auto-ignition temperature:** Not applicable, Contrac All-Weather Blox does not contain components classified as flammable.

**Decomposition temperature:** Not applicable to rodenticide bait

Viscosity: Not applicable, Contrac All-Weather Blox is not a liquid.

# 10. STABILITY AND REACTIVITY

**Reactivity:** Stable when stored in original container in a cool, dry location.

**Chemical stability:** Stable when stored in original container in a cool, dry location. **Possibility of hazardous reactions:** Refer to Hazardous decomposition products **Conditions to avoid:** Avoid extreme temperatures (below 0°C or above 40°C).

**Incompatible materials**: Avoid strongly alkaline materials.

**Hazardous decomposition products:** High temperature decomposition or burning in air can result in the formation of toxic gases, which may include carbon monoxide and traces of bromine and hydrogen bromide.

# 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

**Acute Toxicity** 

LD50, oral (ingestion): >5000 mg/kg (rats) (Bromadiolone Rat LD50 oral: 0.70 mg/kg bw).

**LD50**, dermal (skin contact): > 5001 mg/kg (rats) (Bromadiolone rabbit LD50 dermal: 1.71 mg/kg bw).

LC50, inhalation: Contrac All-Weather Blox is a wax block and therefore exposure by inhalation is not relevant.

**Skin corrosion/irritation:** Not irritating to skin. **Serious eye damage/Irritation:** Not irritating to eyes.

**Respiratory or skin sensitization:** Dermal sensitization: Not a Sensitizer (Guinea pig maximization test).

**Germ cell mutagenicity:** Contrac All-Weather Blox contains no components known to have a mutagenetic effect. **Carcinogenicity:** Contrac All-Weather Blox contains no components known to have a carcinogenetic effect.

Components	NTP	IARC	OSHA
Bromadiolone	Not listed	Not listed	Not listed

Reproductive Toxicity: Contrac All-Weather Blox: No data

**Aspiration Hazard:** Not applicable. Contrac All-Weather Blox is a wax block.

Target Organ Effects: Reduced blood clotting ability.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity Effects:** This product is extremely toxic to fish, birds and other wildlife. Dogs and predatory and scavenging mammals and birds might be poisoned if they feed upon animals that have eaten this bait. Do not apply this product directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff also may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash water or rinsate.

Persistence and degradability: Contrac All-Weather Blox is inherently biodegradable.

**Bioaccumulative potential:** Not determined for Contrac All-Weather Blox. Bromadiolone water solubility is extremely low (< 0.1 mg/l).

Mobility in Soil: Not determined for Contrac All-Weather Blox. Mobility of bromadiolone in soil is considered to be limited.

Other adverse effects: None.

Trade Name: Contrac All-Weather Blox
Supplier: Bell Laboratories, Inc.
Date Created: January 2015
Page 3 of 4

# 13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store only in original container in a cool, dry place inaccessible to children and pets. Keep containers closed and away from other chemicals.

Pesticide Disposal: Wastes resulting from the use of this product may be placed in trash or delivered to an approved waste disposal

Container Handling: Non-refillable container. Do not reuse or refill this container. [Plastic:] Offer for recycling or reconditioning; or puncture and dispose of in a sanitary landfill; or by incineration. In most states, burning is not allowed. [Paper:] Dispose of empty container by placing in trash, at an approved waste disposal facility or by incineration. In most states, burning is not allowed.

# 14. TRANSPORT INFORMATION

**UN number:** Not regulated

UN proper shipping name: Not regulated Transport hazard class(es): Not regulated

Packing group: Not regulated **Environmental Hazards** 

**DOT Road/Rail:** Not considered hazardous for transportation via road/rail. **DOT Maritime:** Not considered hazardous for transportation by vessel.

**DOT Air:** Not considered hazardous for transportation by air.

Freight Classification: LTL Class 60

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

**Special precautions for user:** None

# 15. REGULATORY INFORMATION

## Safety, health and environmental regulations/legislation specific for the substance or mixture:

FIFRA: This pesticide product is regulated by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The safety, health, environmental, and hazard information required on the pesticide label is listed below and reflected throughout this SDS. The pesticide label also includes other important information, including directions for use.

**Signal Word: CAUTION** 

Precautionary Statements: Contains the anticoagulant Bromadiolone which may cause bleeding if ingested. Harmful if swallowed or absorbed through the skin. Keep away from children, domestic animals and pets. Do not get in eyes, on skin or on clothing.

**Potential Health Effects:** 

Eye Contact: May cause irritation **Skin Contact:** Non-irritating to the skin **Ingestion:** Harmful if swallowed

TSCA: All components are listed on the TSCA Inventory or are not subject to TSCA requirements

CERCLA/SARA 313: Not listed CERCLA/SARA 302: Not listed

# 16. OTHER INFORMATION

For additional information, please contact the manufacturer noted in Section 1.

NFPA	Health: 1 (caution)	Flammability: 0 (will not burn)	Reactivity: 0 (stable)	Specific Hazard: None
HMIS	Health: 2 (moderate)	Flammability: 0 (minimal)	Reactivity: 0 (minimal)	Protective Equipment: B

**Disclaimer:** The information provided in this Safety Data Sheet has been obtained from sources believed to be reliable. Bell Laboratories, Inc. provides no warranties; either expressed or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your consideration and investigation. The user is responsible to ensure that they have all current data, including the approved product label, relevant to their particular use.

Trade Name: Contrac All-Weather Blox Date Created: January 2015 Supplier: Bell Laboratories, Inc.

Page 4 of 4

# **Dust Control Plan**

# **DUST CONTROL PLAN**

Ashlar Park 114 Whitwell Street Quincy, MA 02169

Prepared By: DELLBROOK|JKS, LLC

One Adams Place 859 Willard Street Quincy, MA 02169

**Prepared For:** City of Quincy

Date: December 17, 2020

Revision: 0



## **SECTION 1 | PROJECT SUMMARY**

### 1.1 Project Location

Street Address: 114 Whitwell Street

Latitude/Longitude Coordinates: 42° 15′ 6.65″ N, 71° 0′ 47.29″ W Universal Transverse Mercator Coordinates: 4679701.10 N, 333932.48 E

### 1.2 Project Team

Owner: FoxRock Whitwell Realty, LLC

1200 Hancock Street, Suite 301

Quincy, MA 02169

Josh Kleinman, AIA, Director of Design & Construction

**Architect:** Arrowstreet Inc.

10 Post Office Square, Suite 700N

Boston, MA 02169

David Bois, AIA, Principal

Jason King, AIA, Senior Associate

**Civil Engineer:** Tetra Tech INE – United States Infrastructure Division

20 Cabot Boulevard, Suite 305

Mansfield, MA 02048

Richard D. Alfonso, Vice President

Glenn K. Dougherty, P.E., Senior Project Manager

General Contractor: DELLBROOK | JKS, LLC

One Adams Place 859 Willard Street Quincy, MA 02169

James Tracey, Executive Vice President

Christopher J. Modica, Senior Project Manager

Ian Briggs, Director of Field Operations Robert Solon, Senior Project Superintendent

#### 1.3 Project Description

The project consists of the abatement and demolition of the Quincy Medical Center to make way for four (4) residential buildings. The new residential buildings, A, B, C, and D will include 465 apartment units and total 448,292 SF. Building's A and C will each consist of a slab-on-grade with five (5) levels of residential wood framed construction. Building's B and D will each consist of a concrete podium with one (1) level of parking below and five (5) levels of residential wood framed construction above. The project also includes the adaptive re-use and addition to the historic Administration Building to



provide 19,500 SF of amenities space. The Administration Building will be connected to the Building B garage via a tunnel at basement level. Please refer to Figure 1 for building areas and unit counts.

Figure 1 | Building Areas & Unit Counts

Building	Gross Area (SF)	<b>Unit Count</b>
Α	67,072	65
В	118,849	132
С	103,292	123
D	139,579	145
Admin	19,500	-
	448,292	465

There will be four (4) surface parking lots to accommodate 277 vehicles plus two (2) additional parking spaces in front of each building for handicap use. There will be a main courtyard above the Building B garage with a pool, landscaped areas, fire pits, grilles, and gathering areas. A secondary courtyard will be located behind Building D with access to the Glendale wooded area. A road will encircle the site providing access from Whitwell Street to the residential buildings, main courtyard, and surface parking lots. Please refer to Figure 2 for the layout of the site and buildings.

PROPERTY LINE

BULDING SIGN

PROPERTY LINE

BULDING SIGN

PLANS AS DO AS

Figure 2 | Architectural Site Plan

Date: 12/17/2020 Revision: 0



### **SECTION 2 | PROJECT SCHEDULE**

### 2.1 Construction Schedule

The project duration is expected to be thirty-six (36) months. There will be six (6) months of enabling work followed by thirty (30) months of construction. The enabling phase is expected to start in January 2021 with completion expected in July 2021. The construction phase is expected to begin in July 2021 with final completion expected in February 2024. Please refer to Figure 3 for milestone dates for enabling, construction, and building turn-over.

Figure 3 | Milestone Dates

TASK NAME	START DATE	FINISH DATE
Enabling		
Abatement	01/04/21	04/02/21
Demolition	03/08/21	07/02/21
Construction	05/17/21	02/02/24
Closeout	01/01/24	03/01/24
Building Turn-Over		
Admin/Amenity Building, Building A, & Surface Parking Lot	A	02/10/23
Building B, Garage, & Surface Parking Lot B		05/12/23
Building D, Garage, Surface Parking Lot D, & Open Space Im	provements	08/11/23
Building C & Surface Parking Lot C		02/02/24
Final Completion		02/02/24

### **SECTION 3 | DUST CONTROL PLAN**

### 3.1 Dust Control & Air Quality

DELLBROOK JKS will submit a Dust Control Plan (DCP) to the Quincy Health Department for review and approval prior to any site activity. The DCP will include best practices and mitigation measures available to DELLBROOK JKS to help reduce dust and other construction-related airborne material impacts including the following:

- Alternate methods of construction
- Wetting exposed earth areas
- Covering dust producing materials
- Limiting construction activities during sustained high wind conditions
- Seeding, covering, wetting, and/or otherwise treating disturbed soil areas
- Minimizing storage and relocation of spoils and debris on-site
- Installing wind screen on temporary construction fencing
- Covering all trucks transporting dust-producing materials and debris
- Removing loose and unsecured materials and debris from empty trucks prior to leaving the site
- Reducing truck speeds on unpaved surfaces
- Installing and maintaining tracking pads and wheel wash stations at access/egress gates
- Cleaning/sweeping Whitwell Street at the access/egress gate locations when soil material and debris are present as a result of the work
- Modifying the construction schedule when weather conditions can lead to dust impacts

# Phase 1 Close Out Report



October 5, 2018

Mr. Josh Kleinman FoxRock Properties 1495 Hancock Street, Ste. 400 Quincy, MA 02169

RE: Asbestos Abatement Close-out Report
Quincy Medical Center – Phase 1
114 Whitwell Street
Quincy, Massachusetts

EFI Project No.: 020.00026

Dear Mr. Kleinman:

EFI Global, Inc. (EFI) has completed air monitoring and observations of abatement work practices associated with the removal of asbestos-containing materials (ACM) from Quincy Medical Center located at 114 Whitwell Street in Quincy, Massachusetts (Site).

### **SUMMARY OF ABATEMENT ACTIVITIES**

Abatement activities were conducted from May 7, 2018 through September 11, 2018 by Omni Environmental, a Massachusetts licensed asbestos abatement contractor. Asbestos abatement work included work area preparation, removal, and disposal of the following (quantities are approximates):

### **Administration Building**

- 19,000 square feet (SF) of floor tile/mastic throughout the 1st, 2nd and 3rd Floors
- 1,000 linear feet (LF) of pipe insulation throughout the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> Floors

### **East Wing/Rice Building**

- 5,100 SF floor tile/ mastic from throughout the 3<sup>rd</sup> Floor
- 500 LF of pipe insulation and stick pin adhesive from throughout the 3<sup>rd</sup> Floor
- 4,000 SF of window caulk-contaminated windows from throughout the 3<sup>rd</sup> Floor
- 8,500 SF floor tile/mastic from throughout the 2<sup>nd</sup> Floor
- 500 LF of pipe insulation and stick pin adhesive from throughout the 2<sup>nd</sup> Floor
- 175 SF of black damproofing from 2<sup>nd</sup> floor connector building
- 4,000 SF of window caulk-contaminated windows from throughout the 2<sup>nd</sup> Floor
- 12,320 SF floor tile/mastic from throughout the 1<sup>st</sup> Floor
- 500 LF of pipe insulation from throughout the 1<sup>st</sup> Floor
- 4,000 SF of window caulk from throughout the 1<sup>st</sup> Floor

### **C** Building

2,000 SF black mastic associated with 12"x12" pink mottled inlay tile

### **Boiler House**

- 2,500 LF pipe insulation throughout the 1st floor, basement storage area
- 700 SF boiler insulation and interior boiler components complete boiler demolition from the 1<sup>st</sup> floor
- 1,500 SF boiler breeching insulation from the 1<sup>st</sup> floor main area
- 110 exterior windows window glazing

### **SUMMARY OF MONITORING ACTIVITIES**

EFI Massachusetts licensed asbestos project monitors Ms. Kayla Carnes (License No.: AM900545), Mr. Christopher Eustis (License No.: AM900502), Mr. Richard Murphy (License No.: AM000111), Mr. David Johnson (License No.: AM001988), Mr. Nicholas McCarthy (License No.: AM900678), Mr. Nikalas McClure (License No.: AM900666), and Mr. Derrick Calvario (License No.: AM900594) performed work observations and air monitoring, and EFI's project manager provided general consulting services during the abatement project. EFI was responsible for reporting observations and monitoring contractor compliance with applicable federal and state asbestos regulations.

Asbestos air sampling was performed during (in-process) and at the completion (clearance) of asbestos abatement activities in accordance with Massachusetts Division of Labor Standards (DLS) asbestos regulations. Background and clearance air samples collected and analyzed by EFI's monitor at the Site contained fiber concentrations of less than 0.010 fibers per cubic centimeter (f/cc), the Massachusetts non-occupational asbestos indoor air quality standard. EFI's visual clearance sheets and air monitoring documentation are attached to this correspondence.

EFI appreciates this opportunity to provide environmental services to FoxRock Properties and look forward to working with you in the future. If you require any additional information or have questions regarding the attached results, please contact John Vaz at (339) 227-5424.

Sincerely, **EFI Global, Inc.** 

1

Jessica Rauseo 🗸

Project Administrator

John Vaz

Project Manager

Attachments: EFI Monitoring Documentation

JF & Global

# PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

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Fax: 978-688-5494 www.efiglobal.com

/igton, MA 01887 Tel: 978-688-3736

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www.efiglobal.com

155 West St, Suite 6

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155 West St, Suite 6 Wilmington, MA 01887 Tel: 978-688-3736 Tel: 800-659-1202 Fax: 978-688-5494 www.efiglobal.com Carnes PROJECT MANAGER: hhn Vaz
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												_
ij												
03	03 Duplicate Analysis (%)	0/%	l		1	I	1	{	2.104.0	14.5/1		

Microscope Model: <u>Olympus CH-2</u> Daily Calibration: HSE/NPL Slide ロイPhase Rings Centered? ロ

	:ame:	Time:	
Date:		Date:	
Relinquished by (Lab Use Only):	Received by (Lab Lise Only):	the car of	

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

St, Suite 6 Tel: 978-688-3736 Tel: 800-659-1202 Fax: 978-688-5494 www.efiglobal.com

Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm 75 3 Analyst Initials <u>८</u> 7 <u>ප</u> 7 7 ビ ¥ (926) Environmente Not Applicable Not Applicable 200-D 400.0 00.0 200.0 T00.0> 00.00 6.00) 700.0 100.0 Result (f/cc) Smai 12/100 01/0 Fibers/Fields 0110 2,164.8 11 1100 2/100 Fiber Ct. 9/100 6/100 3/100 2,276.2 7/100 3/100 PROJECT MANAGER: PROJECT MONITOR: 5/50 CONTRACTOR: 2,275.2 2.357.1 1,416.2 552.0 542.8 L. 133 113.2 13.2 146 1 5.21 110 111 555.0 Volume (liters) 316 36 9h1 L.5 L.5 59 75/ Time (min.) 123 138 9.2 9.2 5.9 59  ${\mathcal S}$ 5-23-18 5-23-18 821 m 1 gs 13.2 13.2 7.2 7.7 7.2 7.7 7.7 1.8 240 140 m 9.2 9.2 9.2 Avg. Flow rate Liters/min. \*Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance ð DATE COLLECTED: DATE ANALYZED: 1139 7.2 1166 1332 9.7 δ <u>ښ</u> 36 Je al So 1/ mg/9 8 Time 6<sup>93</sup> õ CLIENT: FOX ROCK
PROJECT NAME: &MC- hamin black block Sample. Type 98350-06932 None Hall Way Connector Syte Baxmen+ Stair Well Besement Startwell **Duplicate Analysis** Hallwin Connnector Hallung Connecter Hall way Connected SOFE Sample Location Oecon at Dece at econ at occor \* s-triens Stair Well Stary West とられ あるととと PROJECT NUMBER: Blank Blank ż Sample 6 50 6 S 70 2 02 30 50 ₽ 0

Approved By

Analyst Signature\_

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ID Phase Rin s Centered? ID

Relinquished by (Lab Use Only):	Date:	Time:	
Received by (Lab Use Only):	Date:	Time:	



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Sample		*Sample	F	E E E	Flow rz	Flow rate Il iters/min	/min t	Time	Volume	t radia	Dogul	_
	Sample Location	Туре	ő	JJ O	Б	8	Avg.	(min.)	(liters)	Fibers/Fields	(f/cc)	_
	Blank	·								0/00	Not Applicable	-
	Blank	•				•				0/100	Not Applicable	-
22	Me I was connector	2	8	ØD.IS	9	8.8	2	187	8	11 OC	* 4463	
===	herrory P closme	C	20108	3/0/ 8910	8,	8	9,8	£81	59 * 1	3/100	15,003	_
	horts Total	. 0	60.7	4	8%	9,8 9,8	60	8	7831	5/106	X 5003	
	helling Connector	0 4	C NUI	1917	800	9.9 9.5	800	622	7 1 8 M	4.5100	(S)	_
A	South Lecondon to the world	Q	20	أاماح	9.8 9.8	9.9	9.8	25	2 296	6/100	(20) to	-
5	morth stained	Q	(10)	8141	86 86 86	98	86	- - - - -	2 430	\$1100	150	_
							1					_
35	Dunlicate Analysis									/9	1	

Time: Time:

Date: Date:

Relinquished by (Lab Use Only): Received by (Lab Use Only):

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide 区 Phase Rin s Centered? 区



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1										Š	No.	ŧ
		*Sample		Time	Flow ra	Flow rate Liters/min.	/min.)	Time	Volume	Fiber Ct.	Result	
$\neg$	Sample Location	Туре	ర్	ð	ő	Off	Avg.	(min.)	(liters)	Fibers/Fields	(00/J)	
7	Blank					i			1	8.16	Not Applicable	-
	Blank			1	1	1				Ches	Not Applicable	
	hella sycioten,	Q	0.403	0900	8	8680 86	00	123	1 210	51/00	5,003	
	12 Storiant Martin	q	CHOF	10411 9, 98 9, 12	3/6	86	80	(2)	1736	2/100	5,00,3	
	Scuts	Q	0.00	7.45	8	8	86	är	1,270	4.51,00	4.003	_
	Latter dece	a	040/6	1134	8	2	3%	98 98 150	1. 450	7 1100	6.003	
	notr him	0	9/30	139	00	86 83	86	515/	1 480	901/9	7,007	_
	2016h	9	2415	1145	200	98 98	20	1 5 1	25/	45/100	5007	1
	Dunlicate Analysis									, , , , , , , , , , , , , , , , , , ,		_

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide 日之Phase Rin s Centered? 区

Time:	Time:	
Date:	Date:	
Relinquished by (Lab Use Only):	Received by (Lab Use Only):	

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www.efiglobal.com ame John Vaz Resto Omni PROJECT MANAGER: PROJECT MONITOR: CONTRACTOR: 5-29-18 DATE ANALYZED: 5-29-16 DATE COLLECTED: PROJECT NUMBER: 78550 - 06532
CLIENT: FOX ROCE
PROJECT NAME: QMC - MAN WING

Sample		*Sample	ï	Lime	Flow r	Flow rate Liters/min.	/min.	Time	Volume	Fiber Ct.	Result	Analyst
۵	Sample Location	Туре	б	# <sub>O</sub>	ē	₩o	Avg.	(min.)	(liters)	Fibers/Fields	(f/cc)	Initials
10	Blank								-	00/10	Not Applicable	×
02	Blank							ı		0/10	Not Applicable	ধ
50	Hall on Connector	۵	1510	1048 8.1		<u>%</u>	نَه	197	1,595.7	12/100	6.003	) J
3	star well south	۵	7541 1053 4 9.1 9.1	1053	1.7		9.1	199	1,810.9	00//01	200.9	র
50	Ster well morth	۵	757m	757-1055m 8.1 8.1 8.1	<i>\.</i> %	— め		83/	8.5097	u /(00	6.003	الد
J.	Hallung Connector at de	٥	1454	145Am (1850, 9.1	9.1	8.1	0	8.1 8.9 193	1,717.1	13.5/100	6.003	ارد
2	Hall was connected	0	877 OJ	155 8.1	- 8	- 30	50	167	1,353.7	8/100	(0.003	7
*8	ster wen som	0	P 53	35	9	9.1	7.6	/65	165 1,561.5	9.5/100	0.003	. યુ
60	Stair well Annual	0	10.55	2	1.2	1.50	こ	165	165 1,336.5	8.6//00	6.003	Ã
0	Hallway Connector	Δ	8.8 # # 6	247	4	8.7 6.7		167	167 1,452.9	a((00	6.003	চ
కో	Duplicate Analysis	Δ	1	1	)	١	)	١	5.1921	1/100	6.002	آعً

Approved By Analyst Signature

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide 🗹 Phase Rin s Centered? 🗹

l	Time.	Time:	
	Date:	Date:	
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Initials Analyst 2 ٧ Y ય Carres <u>ر</u>ن (در y 7 <u>ل</u> Ã 9 Not Applicable Not Applicable 6.002 200.0 6000 ₹00-*9* 800.0 C00.0 John Var 200.0 Result (1/cc) 00.00 7.5/100 1 Ond 10//00 12/100 Fibers/Fields Mag 1.5/100 8/100 6//00 Fiber Ct. 0/100 c/(co 00% PROJECT MANAGER: PROJECT MONITOR: CONTRACTOR: 2,086-8 2.197.8 0.0681 8.01/1 1,761.7 08830 1,806.8 Volume 1,598 (liters) **\$** \$\times\_{\ 961 200 66 P.T. (89 981 Time (min.) 787 96/ 5-30-18 5-30-16 8  $\subseteq$ <u>ئ</u> آ =Avg. <u>ن</u> Flow rate Liters/min. ښ <u>~</u> بر من ٧ ص ð ₹ نی نی 5 3 DATE COLLECTED: DATE ANALYZED <del>%</del> د ٥ ဝ် <u>ټ</u> = <u>ټ</u> 5 \*\*C 622 940 623 941 ₽ Time 627 97 E 3 St. 양 ် \*Sample blogs Type 1 0 98350-06932 0 0 Δ 0 0 0 aMc - Admin Hall was connected North work Hall judy connecto Stair well south Hall Lung Connector south Sample Location Halluny connecter decon at decom Base ment Rase Men B K m steir wen Star well Basement Star wer PROJECT NUMBER: CLIENT: COX PROJECT NAME: Blank Blank Sample  $\tilde{o}$ 8 90 ₽ 2 02 8 8 6 60 2

Analyst Signature Approved By

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide Dehase Rings Centered? Dehase Rings Centered?

"Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance

**Duplicate Analysis** 

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Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm

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8/100

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ny /-	Date	<u>H</u>

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JUECT	PROJECT NAME: A Mc - Admin bida	2 12/0							CONTRACTOR			
		-							CONTRACT	7040 .YOL	ò	
Sample		*Sample	ŢŢ	Time	Flow ra	Flow rate Liters/min.	s/min.)	Time	Volume	Fiber Ct.	Result	Analyst
٥	Sample Location	Туре	Б	₩o	ő	ðŧ	Avg.	(min.)	(liters)	Fibers/Fields	(f/cc)	Initials
5	Blank						•	'		0//00	Not Applicable	3
02	Blank	,	-	1		1		1		2016	Not Applicable	K
93	Hall way connected at obecome	٥	730	1046	\$; \$:	ص ض	<del>%</del> ک	851	0.883.1	00//0/	(0.003	7
þo	Hallway Connector	۵	73/	0 de 01	=	<u>-</u>	1.1 1.1	9b)	3.197.8	15/100	6.003	<u>ئ</u>
05	Stair Lucu South Basement	۵	735	Son Don	7	شی	<u>-</u> -	161	1,792.7	12/100	0.003	ਧ
٥	Stair Well North	٥	136mm	1055 Man	سر	1	-	5	1.792.1	12.5/100	6.803	77
١٥	Hall was comector at accor	0	£ 0]	3.6	8.5	8-5	Š	941	1,445	9.5/100	500.0	ই
္အဝ	Hallway Connector	۵	119 10 mm	4.6 MM		=		911	1,867	8 //00	0.095	7
90	Stair well Soften	۵	S3 09	五	<u>-</u>	سر سی	<u></u>	17.	1,554	1.5/100	60.003	3
0)	Star Well North	a	83	75	-	نن	-	171	1,556.	4.5/100	(o.00)	য
. R	Duplicate Analysis	Q	١	i	1		1	1	l	12/100	2.693	٥

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide L Phase Rin s Centered? P

uished by (Lab Use Only).	Date:	
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Tel: 800-659-1202
Fax: 978-688-5494

www.efiglobal.com PROJECT MANAGER: PROJECT MONITOR: 91-1-DATE COLLECTED: PROJECT NUMBER: 98350-06932.

Sample		*Sample	F	rime	Flow ra	Flow rate Liters/min.	/min.	Time	Volume	Fiber Ct.	Result	Analyst
٥	Sample Location	Туре	δ	ð	Б	JJ O	Avg.	(min.)	(liters)	Fibers/Fields	(f/cc)	Initials
2	Blank								1	0/100	Not Applicable	¥
02	Blank	-	·	-	1		1	t		0/100	Not Applicable	3
63	Hallumy Connector	۵	7-K	748 95 85 8-5	<u>ب</u>	8.5	8.3	(2)	1,037	7//00	0.003	v
50	Hallumy Connector	0	7.49	1.49m GSIM	(11.)	=	1:1	122	1,354.2	201/20	6.003	<u>র</u>
\$	Stairtell south	0	755	755, 956, 91 91	15	تن		2	t.011,1	ω)/ <sub>L</sub>	6.003	8
<u>s</u>	Star vell North	0	33	7.8% BOIRM G.1	ن	J	<u>ن</u> ئ	123	5.911,1	5.5/100	6.002	<i>K K</i>
5	Hall way Connector	۵	S. Com	113	80	ما ض	بخ	112, 8.5 p.5 P.S 202	1,717.0 11.5/(00	11.5/100	6.003	וככ
68	Hulluy Connecter	0	Sin	Laber	=	III	1	201	••	13 (00	200.0	ಕ್ರ
60	Starwell Soun	0	St	956 118 pm G. 1	J	- <del>-</del>	J.	200	200 1,820.0 (6) (00	00/101	0.005	<u>ਤ</u>
0	Stair well worth	A	1001	1.6 geel	9.6	5	<u>;</u>	अव	1.3681	0.5 (20	200.9	ᅶ
	Duplicate Analysis	0	1		1	1	(	1	0.017.1	70/01	500.0	Š

Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance 1 Approved By Analyst Signature\_

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide 区 Phase Rin s Centered? 日

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CFI Complex Sparse, Spoil Solvidors.

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www.efiglobal.com Kanla John PROJECT MANAGER:
PROJECT MONITOR:
CONTRACTOR: 81-h-9 DATE COLLECTED:
DATE ANALYZED: + C blda ame Admo bola 98350-06932 PROJECT NUMBER: 9 CLIENT: FOX CASK PROJECT NAME: GAL

Sample		*Sample	Ë	ime	Flow ra	Flow rate Liters/min.	s/min.	Time	Volume	Fiber Ct.	Result	Analyst
₽	Sample Location	Туре	ō	ð	o	#o	Avg.	(min.)	(liters)	Fibers/Fields	(t/cc)	Initials
2	Blank							-		01(00	Not Applicable	120
05	Blank			-	ı	-	,	ı	1	20110	Not Applicable	ম
03	Hallway compressor	0	ઝુડ	6-58 1610 8-5 8-5 8-5	\$\$	8.5	7	751	1,633	11/100	0.00	3
20	Hallway connector	Δ	(651 PM	(659mm 1011 pm	T.I.			261	2.181.2	13.5/100	0-093	ৰ
70	Steirwell south	۵	707	707 101S 9.1	=	<del>5</del>	ر خ	881	8.01(1	12/100	800.9	ब
<u>و</u> 0	Sturwen Nevtr	a	709	1.9 - 1.01	5	9.1	ن	88	1.710.8	12   (50	6.003	ब
ଚ	Hallway connected	Δ	1010	010 NY 8.5	Š	8.5 8.5	مد	188	1,598.0	2 //00	6.00.0	ন
<b>∞</b>	Hallwey Connector	0	(O)	1804		1-1	Ξ	(%)	7,07S.7	12/100	0-00	त्र
হ	Stairwell south	0	1015 pm	. he	<u></u>	J-b	÷	5	17199	15//00	h00-9	ब्र
0	Star Well North	0	₩d[]0]	יייובם	9.1	g. (	4.	198	1,729.0 9.5/100	9.5/100	6.002	र्
	Dublicate Analysis	0	ι	. 1	I	l	ı	1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	10 //00	(8)	5

Approved By Analyst Signature\_

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide E Phase Rings Centered? L

Relinquished by (Lab Use Only):       Date:       Time:         Received by (Lab Use Only):       Time:				
	Relinquished by (Lab Use Only):	Date:	Time:	
		Date:	lime:	



# **Certificate of Completion**

Project Name: Quincy Medical Center
Project Location: 114 Whit well St. Qumcy, MA
Containment: C building
EFI Project No.: 98350 - 06932
Contractor's Certification of Project Completion
Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.
Signature: Wilson Fata Date: 6-5-78
Print Name: WILSON SOTO
Print Title: Super U.S.
Contractor Name: Omni Unuim mental
EFI Field Technician Certification
The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.
Signature: Date: Date:
Print Name: Kayla Carnes



## **CERTIFICATE OF VISUAL INSPECTION**

Project Name: Quincy Medical Center
Project Location: 114 Whit well St, Duing, MA
Containment: C building
Material & Quantity Removed: 2000 SF Floor tile & Mastr
Contractor's Certification of Visual Inspection Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges,
walls, decks) Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.
Signature: Usperson Date: 6-5-18
Print Name: WILSON SOTO
Print Title: Super un Zor
Contractor Name: Omn; Environmental
EFI Field Technician Certification
The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.
Signature: Date: 6-5-/8  Print Name: Kanla (arre)



# **Certificate of Final Air Clearance**

Project Name: Ouncy Medico	al Center
Project Location: 14 Whit well	St., amcy Ma
Containment: C Building	
EFI Project No.: 98350 - 00	6932
EFI Certification of Final Air Clearance	
THIS CERTIFICATE IS TO CERTIFY THAT FIN. THE ABOVE CONTAINMENT WORK AREA. A	AL AIR CLEARANCE HAS BEEN ACHIVED FOR N AIR SAMPLE CONCENTRATION OF:
0.002 < 40D	Fibers per Cubic Centimeter (f/cc) Using Phased Contrast Microscopy
• • •	
N/A	Structures per Millimeter Squared (f/cc) Using Transmission Electron Microscopy
Signature: <u>Harc</u>	Date: <u><b>6</b>-5-/8</u>
Print Name: Kayla Carnes	

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

Initials Analyst え ಶ Z 3 R Z B 7 (9 m 6) Not Applicable Not Applicable 5.5/10 0.000 400·0 100.0 08.0 185-0 \00.Q Result (t/cc) Jann C प्रमुख 4.5/100 45/8 3.2/18 2/100 3 7 0000 Fibers/Fields 001/0 Fiber Ct. PROJECT MANAGER: PROJECT MONITOR: CONTRACTOR: ゆるの 1980 -ことらら 1,356.4 3.076 4.106.1 Volume (liters) و م (min.) Time 00 <u>و</u> م E 8 ₹ 6-5-18 6548 104h 120 143 143 143 5.41 6.41 8.50 HO.3 HO.3 子 19.3 Avg. 197 193 立 Flow rate 'Liters/min.) 13.3 1107A 1233 14.3 13.8 (115A 124), 14.3 14.3 ₽ DATE ANALYZED: DATE COLLECTED: 4.7 1101 1235 14.3 ် FLIP 1245 ₹ Time First 5 "Sample Туре 98350-08635 CLIENT: GX ROCK
PROJECT NAME: Q MC - C BVILD NS 4 4 U 4 PC0 m North Past lower Certer of ICIOS SOUTH COUNTY IN room near lost and COUNTY IN COM Main Room Not Side Sample Location New Lon Main Meon South Past PROJECT NUMBER: Blank Blank တ 9 Sample 5 8  $\hat{o}$ र ₽ 2 8

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide C Phase Rin s Centered?

Approved By

Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm

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\*Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance

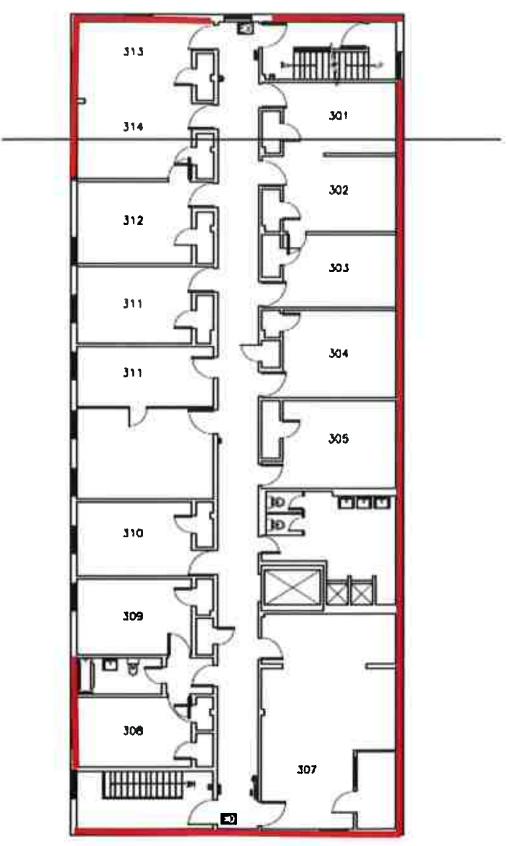
**Duplicate Analysis** 

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Analyst Signature\_\_\_

Relinquished by (Lab Use Only);	Date:	Time:	
Received by (Lab Use Only):	Date:	Time:	

June 8, 2018 Inspection
June 8, 2018 Absterent



3RD FLOOR—RED INDICATES ACM DAMPROOFING LOCATION.

**LOWER 2' IN ALL NOTED AREAS** 

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Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm Analyst Initials ગુ প্র 7 3 7 <u>ਤ</u> Not Applicable Not Applicable John Ver C00.0 €00. Ω 0.007 6.003 Result () ()()() 6.003 Smn; 4.5/100 5.5/100 2/2 Fibers/Fields 1,6065 1000 00) 00//0 001/9 Fiber Ct. PROJECT MANAGER: PROJECT MONITOR: CONTRACTOR: ی 1615.0 Volume 935 (liters) アググ 935 051 (min.) 9 Time R.5 85 185 2 01-0-0 8)-0-0 8 8. ~ <u>%</u> Avg. Flow rate | Liters/min. 1 'Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance S, S, 8:5 8 **₩** ١ DATE ANALYZED: DATE COLLECTED: مر ف 730 1045 B.C 11st. 145 8.5 Б 728, 1038, 8.5 1159 149 ... Approved By ₽ Time Ploor ် 3rd \*Sample 9 **6** Type B B RG G 98350-06a32 CLIENT: Fox Rock
PROJECT NAME: QWK - ELOK WWA Brot Flav 3rd Plan East wing 3rd floor East wing 2nd flow **NAMES Duplicate Analysis** Sept. ځ کې 323 Sample Location PROJECT NUMBER: 78. Corrodor Consolin かられるが East wing Cerridor corrector Blank Blank Analyst Signature Sample 5 3 2 07  $\mathcal{Z}$ ₽ 8 B

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide 🗗 Phase Rin s Centered? 🕜

~	Date:	Time:
Received by (Lab Use Only);	Date:	Time:



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PROJEC CLIENT:	2 dB	633	<u>^</u>	ATE COLLECTED: DATE ANALYZED:	LECTE		81-1-0	90 U	PROJECT MANAGER:		الم	
PROJEC	1573 -	WMg 3rd	Ro	ز		Į,			CONTRACTOR	TOR: Omn.	ادوما	(82.48)
Sample		*Sample	F	Time	Flow ra	Flow rate Liters/min.	min.)	Time	Volume	Fiber Ct.	Result	Analyst
Ω	Sample Location	Type	ő	₩0	ő	ŧ	Avg.	(min.)	(liters)	Fibers/Fields	(t/cc)	Initials
10	Blank						ŀ		,	0/10	Not Applicable	Z
05	Blank	ļ		ı	,	1				00110	Not Applicable	3
8	Corridor North side	BG	703	703 - 1017 PS	2	8.5	85	194	1,649.0	081) 6	6.007	্র
ğ	Corridor South side	36	30	104-1024 8'S		مر م	\$	561	1,657.5	007   11	Q-003	ब्र
So	Consider Newth Selle	36	20	110 8.5	8.5	88	من	511	1,470-S	00) (0)	6.003	3
<u>و</u> ئ	compler South side.	86	1201	115 m 8.5		<b>R</b> -S	8.5	179	1,479.0	00) 3.5	6-003	ब्र
. 6	Dublicate Analysis	8	1	١	١	١	1	١	0.579	9	V 00.	3
*Sample Type; Analyst Signature		e-abatem	ent, D=D	>=During, F Approved By	= Final	Cleara	) eou	Analyti	Analytical Method: NIOSH 7400, Limit of Detection is	H 7400, Limit	of Detection is 7	7 fibers/mm²
Microscop€	Microscope Model: Olympus CH-2_Daily Calibration: HSE/NPL Slide IP Phase Rings Centered? ID	oration: HS	E/NPL SII	9	hase Rir	us Cente	ered? [5	$  Y_i  $				
Relinquish Received I	Relinquished by (Lab Use Only): Received by (Lab Use Only):					Date:	j i i			Time:		

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

Sample   Time   Flow rate Library   Ore   Contractors   Chron.   Chron.	ROJEC:	ON MARER: 7635 - O'E	3450	֓֞֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	DATE ANALYZED:	NAI YZE			2 0	PROJECT MANAGER:		UI.	
Sample Location   Sample   Time   Flow rate   Literstrain   Time   Volume   Flor CL   Result	ROJEC	T NAME: QMC - Com	Posotong	<b>1</b>	Jun of	1852	37	1 1	4	CONTRAC	- 1	7/4	19.5
Sample Location   Type   On Off   Avg. (min.) (lifers)   Fibers/Fields   (fict)	Sample		*Sample	ĮĮ.	me	Flow ra	ite Liters	/min.	Time	Volume	Fiber Ct.	Result	Analyst
Blank  Dast Lung 3-F F1  Be GLG 100 8-5 78 8-2 190 1607.2 14 100 0.004  Cast Lung 3-F F1  Be Highway  Contito Almin  D 705 10010 10.2 10.2 10.2 197 1615.4 13 100 0.003  East Lung 3-F 1  Be Hollbau  Cantito Almin  D 105 104 10.2 10.2 10.2 10.2 10.3 13.5 100 0.003  East Lung 3-F 1  Be 108 124 8-2 8-2 8-2 8-2 8-2 8-2 8-2 8-2 8-2 8-2	٥	Sample Location	Туре	ő	<b>∄</b>	δ	Off	Avg.	(min.)	(liters)	Fibers/Fields	(f/cc)	Initials
Blank Dast Wing 3t F1  BG (41) 100 85 78 8.2 196 1,607.3 14/00 0.004  Best Wing 3t F1  BG (41) 100 85 78 8.2 197 1,615.4 13/100 0.004  East Wing 3t F1  BG (100 100 100 100 197 197 1,615.4 13/100 0.003  Bast Wing 3t F1  BG (100 100 100 100 197 197 197 197 197 197 197 197 197 197	2	Blank									000/0	Not Applicable	אכנ
Aborth 19 3 14 100 8.5 78 1.2 196 1,607.2 14 100 0.004  East Luing 31 1 86 Utlo 100 B 57 7.8 8.2 197 1,615.4 13 100 0.009  East Luing 31 1 86 Utlo 100 B 10.2 10.2 10.2 199 1,615.4 13 100 0.003  East Luing 31 1 86 1108 124 8.2 8.2 8.2 8.2 8.7 775.4 5/100 0.004  East Luing 31 1 86 1108 124 8.2 8.2 8.2 8.7 775.4 5/100 0.0094  Can the Wing 31 1 86 1109 124 8.2 8.2 8.2 8.2 8.7 755.4 5/100 0.0094  Can the Wing 31 1 86 1109 124 10.2 10.2 10.2 10.2 10.3 10.2 8.3 5/100 0.003  Duplicate Analysis 86 75.00 0.002	05	7.0			,	1	ŀ		,		0/200	Not Applicable	শ্ব
End of Hallward St. 19 100 100 100 100 100 100 100 100 100	63	Morth Wing &		CAS.	8	\ <u>\</u>	7.8	7.5	196	1,607.2	14/100	h00.0	) <i>و</i> כ
Eastway 3 186 108 124 8.2 8.2 8.2 8.7 775.4 7/100 0.003  Eastway 3 186 108 124 8.2 8.2 8.2 8.7 775.4 7/100 0.004  Eastway 3 186 108 124 8.2 8.2 8.2 8.7 775.4 5/100 0.009  Eastway 3 186 108 124 8.2 8.2 8.2 8.7 755.4 5/100 0.003  Connect Name of Halloward  Dublicate Analysis 86 75.600 0.003	ठ	Soft wing sie FI	ßG	95	8	8.3	2.8	2.5	197	1,615.4	13/100	6.005	18
eastury 3 86 108 1248 82 82 87 775.4 7/00 0.004  East wing 3 86 1109 124 82 82 97 755.4 5/00 0.009  Control Hailboard D 1159 24 10.2 10.2 10.2 93 548.0 5.7/00 6.002  Duplicate Analysis 86 795.0 7.5 cm 6.002	0	End of Hallman Contictor Almin		702	माळा	10.2	0.7	E01	161	1,999.2	13-5/100	6.003	র
ecst Wing 3 1 1 1 1 1 24 8 2 8 2 9 7 755-4 5/100 6-003  We at Halleborn D 1159 24 10.2 10.2 10.2 93 548-10 5-5/100 6-003  Duplicate Analysis 86 755-4 7-5/100 8-0001	90	eastumy 3th Pl	BG	108	340	00	8.2	رخ	23	775.4	1/100	h00.0	ã
Connector Politicista No. 10.3 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2	120	east wing suff	BG	11094	134cm	8.7	~	~ is	6	4.532	5/100	500.0	প্র
Duplicate Analysis 86 75 m King Cu	80	Connector Admin	Δ	ISp	13-5%	₽.Ġ	6.0	7.0	53	0.845	5.5/10	6.002	73/
Duplicate Analysis 8.5 75 / Cm (1.50 CM)													
Duplicate Analysis 86 75 / 2011													
	9	Duplicate Analysis	BG	I	1	ı	ı	Ī	1	7954	7.5/100	00.00	7

Microscope Model: Olympus CH-2\_Daily Calibration: HSE/NPL Slide To Phase Rin s Centered? To

Approved By

Analyst Signature\_

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- 1	Date:	Time:	

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1 of 3

6,000	Analyst	Initials	22	و	מכ	וכנ	) )2	ارد	) 21	رو	K	ינכנ	Ŋ	
bhn Var Kayla Gines	Result	(t/cc)	Not Applicable	Not Applicable	100.0	00.00	100.0	100,0	0.001	100.0	100.0	100.0	0.001	
	Fiber Ct.	Fibers/Fields	0/100	0/100	4.5/100	4/100	3.5/100	3.5/100	3/100	3.5/100	00// h	4 / 60	45/00	
PROJECT MANAGER: PROJECT MONITOR: CONTRACTOR:	Volume	(liters)			1,310.4	0.846,1	1.375.2	1,2944.8 3.5/100	1,362.6	1,378.7		1.316.4	h-KC?'	
3/-	Time	(min.)		ı	₹.	8	83	83	83	\$\$	83	84	86	
8/-11-9	s/min.	Avg.			15.0	2	434 5560 15.6 15.4 5.6 82	951	13-615.2 15.4 BD	P.51	15.6	15.6	p-81	
	Flow rate   Liters/min.	ð		·	٦٤١	<u>ي</u> 5	و نن⁄ –	بي مرار -	18.2	18.5	9%1	18.6	72	
LECTE	Flow	ő		·	اج اج	ا کرد	13.6	15.6	13.6	<u>د</u>	4.5.	13.4	اج ج	
DATE COLLECTED: DATE ANALYZED:	e l	#6		,	554	555	556ph	58	5542	109	ુ સ્કુ	, OSP	MA&DO	
۵   B	Time	б		•	430, 55 15.6 15.6 15.C. 84	43 55 156 156 150	434	435 58 15.6 13.6 15.6 83	437pm	138 601 15.4 15.4 85	J-51 J-51 EQJ MOH	4410,005 13.4 15.6 15.6	42A-608Am 15.6 13.2 15.4 86	
06932 Admir Gral	*Sample	Туре		ij	u	Ú	Ċ	U	U	ت	U	4	u	
PROJECT NUMBER: 98350-06931 CLIENT: FOX ROCK PROJECT NAME: QM ( - Admin		Sample Location	Blank - F. elch	Blank - Lielu	3rd H North west Corner	s.rdf.i West	sight	Southwest Corner and Acos	west stae	Worden wast Corner	North West corner 1st Floor	1st floor (abbon	South West - 1st fi	
PROJECT CLIENT: PROJECT	Sample	Ω	01 ♣	02 A	03 A	δ γ	05A	V20	ALO	ص <u>ي</u> ت	ઠે૦	03	· 1	•

Approved By Analyst Signature /

\*Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance

**Duplicate Analysis** STINDE!

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Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm

000

3/100

1,310.4

Microscope Model: Aympus CH-2\_Daily Calibration: HSE/NPL Slide

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Received by (Lab Use Only):	Date:	Time:

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PROJECT MONITOR:
CONTRACTOR: PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION 2/-11-6-1178 DATE ANALYZED DATE COLLECTED: 98350-06932

Cru(

- Round 2

Final

BIMC - Admin

PROJECT NUMBER: 9
CLIENT: Fox ROX
PROJECT NAME: 0 M

S 61 8		_Samble	Time	ē	Flow ra	Flow rate Liters/min.	min.	Time	Volume	Fiber Ct.	Result	Analyst
	Sample Location	Туре	ő	ő	5	ð	Avg.	(min.)	(liters)	Fibers/Fields	(Jo)	Initials
3 30	1stfl Hall Wa Connector	مل	<u>가</u>	445 65 1S. 13. 15.	18.6	5	13.6	58	1,310.4	4/100	Not Applicable	य
76	on Pi Haller NorthSide	u	93	15-6 15.6 15. 1S.	ا را	15.76	S	36	1,544.4	3//00	Not Applicable	র
) 기	3" A- Hallway Center	U	୧୬	801 15.2 15.2	15.3	15.2	15.2	66	1,564.8	2/100	100.07	8
35	3° : Fl-Hallnany Southaside	Ct	260	6259 603 15.6 15.6 15.6	136	اج:ا	ا اې	86	1,528.8	2.5//00	(00.0)	3
ة. ع	9 ( H Hall way	Ü	8.41 8.41 14.8 14.8	806h	8,41	14.8	9.	66	1,465.2	3.5/100	6.001	র
å	F Hall Way C +er	4	62m 801 13.5 135 135	BOJA	13.5	13-5	135	g 6	0.5681	2.5//00	(0.001	<u>a)</u>
8	and RHII van	cv	(30m)	810gm 14.2 14.2 14.2	14.2	7.4.1	14.2	00	0.0641	3//00	6.001	ই
51	+ FI Hallway worth side	U	(33 (0.8m)	811 Am 13.8 138 13.8	13.8	138	13.8	65	1,366.2	7.5/CM	100.0)	ন
51 24	1st A Mein by Center	4	150 1937 1937	8 14th 17.0 13.0 13.0	13.0	13.0	13.0	00]	0.005,1	3.5/16	0.00	ন
<i>s</i> 1	1st Hallway South Side	v	150 mg mg	815th 15.2 (5.2 15.2	13.2	75)	15.2	96	<i>→.68</i> +,1	09//2	100.07	$\vec{\beta}$
£ 400	1st F/ Hall wan connected	U	639 Fr. 0	817m 13.6 13.8 13.8	13.6	13.8	13.8	80	1,359-4	3/100	100.0	3
\ <u>S</u>	Duplicate Analysis	١	ı	j	ì	ì		)	1,528-5	001/e	(00.07	3

Microscope Model: Olympus CH-2\_Daily Calibration: HSE/NPL Slide LY Phase Rin s Centered? LY

Approved By

Analyst Signature\_

se Only):	Date:	Time:	
Received by (Lab Use Only):	Date:	Time:	

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Analytical Method: NIOSH 7400, Limit of Detection s 7 fibers/mm Initials Analyst Z <u>y</u> ৬ ४ B 3 ತ ধ্ 9 3 <u>ر</u> 30.75 Not Applicable Not Applicable 60.07 0,00 bhn Vg 0.00 100.0 Result 100.0 100.07 6.65 60.00 4/4 (f/cc) 0.00 8 2.2/100 3.5/100 3.5/100 Fibers/Fields 3-5/100 % 3/100 3.5/100 Fiber Ct. 4/100 3/100 1.5/100 00//E PROJECT MANAGER: PROJECT MONITOR: S CONTRACTOR: 4.976,1 9.946.1 4.122.1 1.2768 3.0Ct.1 1.306. 1,263.8 1,294.8 28 3.4 263.6 7.1861 Volume (liters) (min.) ф Ж Time <u>و</u> 8) 2 3 6 8 50 <u>و</u> & 28 1  $\overline{\infty}$ 91-11-9 0-11-15 816th 936 156 156 15.6 <u>~</u> 751 951 9.51 14.5 14.2 14.2 14.2 13.2 14.2 142 <u>1</u> 15.6 15.6 Avg. Flow rate 'Liters/min. Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance イナ 15.5 <u>ص</u> 14.8 14.7 ₽ DATE ANALYZED DATE COLLECTED: 951 mgg 74.4 7.5 اج اع 13.8 47 <u>ک</u> مح 下 ် 810m = 34 814pm 931 806 938 306 93° 1933 800A 3-Councl > 85 5 RO21 1-34 ₽ 1 Time 817A 21.2 FM Son P ် FING 'Sample Type 98350-06935 4 4 4 W W  $\circ$ 4 4 U 4 Admin 3rd Pl - South East conner 35" FI - 1 ortho Ecst Corner 2nd 4. Swanzest Come 1st Fl- Man Lobou Corner そうち そうろ **Duplicate Analysis** and Cl - East side Hall wan 307 - 50 + Sight 1- A- vata Ecs and fl- northesest 320 Sample Location Stante - Las COMME Qm(-PROJECT NUMBER: CLIENT: FOX KO PROJECT NAME: 1st A-1st Al-CLIENT: Sample 7 Z Z 86 33 6 8 Ω 8 \$ 50 ھ 3

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide de Phase Rings Centered?

Approved By

Analyst Signature\_\_\_

Relinquished by (Lab Use Only);	Date:	Time:	
Received by (Lab Use Only):	Date:	Time	



# **Certificate of Completion**

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St. Quincy MA
Containment: Admin building
EFI Project No.: 98350-6693と
Contractor's Certification of Project Completion
Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.
Signature: Date:
Print Name: JULSON C. SOTO
Print Title: Supervisor
Contractor Name: Omni (Nuivan enfal
EFI Field Technician Certification
The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.
Signature: Date: Date:
Signature: Date: 6-11-18  Print Name: Kayla Carnes



## **CERTIFICATE OF VISUAL INSPECTION**

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St Wincy Ma
Containment: Admin Building
Material & Quantity Removed: floor file & Black mastic - 19,000 SF
Contractor's Certification of Visual Inspection Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks) Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in
general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.
Signature: Date:
Print Name: MISON R. SOTE
Print Title: Super ViSav
Contractor Name: Omni
EFI Field Technician Certification
The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.
Signature: Date: 6-1(-1%
Print Name: Kanla (9103



## **Certificate of Final Air Clearance**

Project Name: Un Medica Cente	Y
Project Location: 14 Whit well St.	Quincy, MA
Containment: Almin building	
EFI Project No.: 98350 - 06932	
EFI Certification of Final Air Clearance	
THIS CERTIFICATE IS TO CERTIFY THAT FINAL AIR OF THE ABOVE CONTAINMENT WORK AREA. AN AIR S	
	bers per Cubic Centimeter (f/cc) sing Phased Contrast Microscopy
	ructures per Millimeter Squared (f/cc) ng Transmission Electron Microscopy
Signature:  Print Name:  Kayla Carnes	Date:

Complex Serves Solid Solutions

PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

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Tel: 800-659-1202	Tel:
978-688-3736	Tel:
J. MA 01887	Wilm.
t St. Suite 6	15.

E: OW.C East cing 3rd Pl  Sample Time Flow rate Liters/min.  K  West at decan  Cetar at decan  By Dym 100, 9.2 9.2 1  Cetar at ecan  By Dym 100, 9.2 9.2 1  Cetar at ecan  By Dym 100, 9.2 9.2 1  Cetar at ecan  By Duplicate Analysis  By Community F=Final Clearance	PROJECT CLIENT:	PROJECT NUMBER: 1850 - COUNTY SA-CLIENT: FOX COCK	60	<u></u>	DATE COLLECTED: DATE ANALYZED:	LECTE VALY75		0-14-10	2 d	PROJECT MANAGER:	IANAGER:	John Vaz	
Sample Location  Sample Time  Flow rate Liters/min.  Blank  End west lall way  End west decan  West Hallway  West Hallway  Duplicate Analysis  Bample  Type  On Off Avg.  Proper and On Off Avg.  Sample  Type  On Off Avg.  Proper Avg.  Proper Avg.  Sample  Type  On Off Avg.  Proper Avg.  Proper Avg.  Sample  Type  Type:  Bample  Type  Type:  Duplicate Analysis  Bample  Type:  Bample  Type:  Bample  Type:  During, F=Final Clearance	PROJEC	TNAME: OMC - East Con	374							CONTRA		1	4
K	Sample		*Sample	F	ne Pie	Flow ra	ite i Liters	/min.	Time	Volume	Fiber Ct	A Second	Analyet
K  West Can  Color at decan  A tallway  Cotor at ecan  BB 148 9.2 9.2 1  Cotor at ecan  BB 148 8.2 6.2 9.2 1  Cotor at ecan  BB 188 8.2	٥	Sample Location	Туре	ő		ő	ð	Avg.	(min.)	(liters)	Fibers/Fields	(1/100)	Initials
the stall by BB DAM BB 9.2 9.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5	9	Blank		-							0/6	Not Applicable	M
The west all way  The west at decan  The Hall way  The Hall was a feet of the Hall wa	05	Blank		1	ı	-	1	-	ı	-	%	Not Applicable	to
+ Hallwey  c. ter at ecan  Both  Duplicate Analysis  BG=Background, P=Pre-abatement, D=During, F=Final Clearance	63	End west all way		709Am	1033	9.2	2:5		203	9.19.8	7.5/100	7	
Duplicate Analysis &   [6]\(\infty\) \(\frac{5}{100}\) BG=Background, P=Pre-abatement, D=During, F = Final Clearance Analytical Method: NIOSH 7400, Limit of	B	West Hallway	Be	148	8	2.6	2.5	8.5	0/1	16/2	2.5//08		
Ouplicate Analysis & — — — — — — — — — — — — — — — — — —			·										
Duplicate Analysis &C   BG=Background, P=Pre-abatement, D=During, F = Final Clearance													
Ouplicate Analysis \$\mathcal{B}\$   BG=Background, P=Pre-abatement, D=During, F = Final Clearance													
Ouplicate Analysis       \$C         BG=Background, P=Pre-abatement, D=During, F = Final Clearance													
Supplicate Analysis       \$C       —													
Duplicate Analysis & — — — — — — — — — — — — — — — — — —													
Duplicate Analysis & — — — — — — — — — — — — — — — — — —													
BG=Background, P=Pre-abatement, D=During, F = Final Clearance	63	Duplicate Analysis	8	1	ţ	l	1	}	Ì	1612	001/5	0.001	K
	*Sample	Type; BG=Background, P=PI	re-abatem	ent, D=L	uring, F	: = Fina	Cleara	nce	Analyti	cal Method: NIO	SH 7400, Limit	of Detection is	7 fibers/mn

Time: Time:

Date: Date:

Relinquished by (Lab Use Only): Received by (Lab Use Only):

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide Phase Rings Centered?



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Sample		*Sample	Ê	Time	Flow rai	Flow rate Liters/min.	min.	Time	Volume	Fiber Ct.	Result	Analyst
₽	Sample Location	Туре	ő	#6	б	₩ W	Avg.	(min.)	(liters)	Fibers/Fields	(f/cc)	Initials
5	Blank						1	-		0/106	Not Applicable	CC
02	Blank	٠	,	1	,	ŀ	ı	-		9/06	Not Applicable	Z
03	3rd A - Hall connecter at decan	9	788	8, 1635, 9.1		8.58.8201	<b>≫</b>	707	1821.4	8.7/100	6.602	`
क	Sal far vell	Q	718pm	Am 1038 9.2 9.2 1.2 12 202	9.2	7,7	7,	202	1858.4	001)6	6:00	
05	Noth ST VE!	·Q	734	Jan 1045 9.2 9.2	4.2	4,5	بر <del>ن</del>	551	18308	8/100	0.00E	
و	34 R - Hall Canecke	Δ	118	14% 145-9.2 B.S 8.8	45	R.S.		=	9.4601	6/100	200.9	
٢٥	Soft Star ver!	۵	1153	1153 48A 9.2 9.2	ک م	9.5	رم ض	521	1358.0	4 [S	100.0	
స్ట	water Star Well	0	151	571-155- 9.2 9.2 9.2	۲۵	4.5	4,2	118	1088.6	4.5/100	100.0	-
, O	Duplicate Analysis	۵	1	ı	1	l	ı	l,	5.8%	08	109.0	

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ' Phase Ring Centered? '

$\equiv$	Date:	Time.	
Received by (Lab Use Only):	Date:	io Eliza	



15. Suite 6 Wilm. A. MA 01887 Tel: 978-688-3736 Tel: 800-659-1202 Fax: 978-688-5494 www.efiglobal.com Gracs 52 525 Ohos PROJECT MANAGER:
PROJECT MONITOR:
CONTRACTOR: PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION 8-11-9 DATE ANALYZED: DATE COLLECTED: PROJECT NUMBER: 48350-0632 DATE COLLECTED: CLIENT: 6x Record DATE ANALYZED PROJECT NAME: 00x - 6651 www, 30d Hoor - pregrands 98350-06332

₽	Sample Location	Туре	Б	#5	Б	Off	Avg.	(min.)	(liters)	Fibers/Fields	(f/cc)	_
5	Blank					-	·			0/600	Not Applicable	
02	Blank	,	1	1	1	1			1	01/20	Not Applicable	
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	South Stair Licui	٥	128Am 1048-9.2 9.2	1048A	2.5	2.5	4.5	202	1858.4	8.5/100	0.062	_
05	North Stair Uerl	۵	73/94/0554 9.2 9.2 9.2	10554	2.5	2.5	۲.۶	199	8.08.81	8/100	₹ 30.0 0	-
00	3nd A - Holi Conroctur at dec	۵	8011	105	105 9.2 9.2 9.2 117	2.5	9.2	117	1,076.4	2/100	8,00.9	
	South Stair Len	Δ	[[13	<u>%</u>	108 9.2 5.2 5.2	5.5	2.5	ر ااک	1058.0	4.8/100	6.001	Z
	North Star well	۵		S	115 92 5.2 5.2	5.5	۲. ۲.>	آج	9.580/	45/100	200.0	R
		0							15 40 1	2		
^	Duplicate Analysis	٤	ι	١	1	1	ľ	)	4.4041	8/18	(0),0	

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide & Phase Rings Centered?

Relinquished by (Lab Use Only):	Date:	Time:	
Received by (Lab Use Only):	Date:	Time:	



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Sample  10  Sample Location  01  Blank  02  Blank  03  Zw9 F1 -t1a11 Carrect  04  Solth Stair Well  05  Turn Stair Well  05  Solth Stair Lell  06												
		*Sample	į	Time	Flow ra	Flow rate Liters/min.	/min.1	Time	Volume	Fiber Ct.	Result	Analyst
		Туре	ર્ક	₩ O	ő	J#O	Avg.	(min.)	(liters)	Fibers/Fields	(f/cc)	Initials
								,		0010	Not Applicable	8
			ij				i	-	-	dias	Not Applicable	3
	annech	\(\rightarrow\)	200	(D)S	8.5 8- BY	رب م	By	361	1683.0	8/100	(00.0	<u>\$</u>
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	eul .	0	710	1025 84 7515	4	4	X	195	1657.5	8/100	0 · 00 .	3
T CHINE TY OF COLON	.!! econ	0	018	<u>%</u>	118 85 ES BU	Sign	82	8	0.0551	6/100	₹00.0	=
07 Surya Stamwall		0	(03x	135	7-8 8-5 BE B-T	P. Q	1-	183	1555.5	5.5/100	l.00.9	5
08 with Sturmen	5	a	5601	130 8.5 8-55	مه بح	50	5.50	185	1572.5	6/140	0,005	3
Duplicate Analysis	sis	Δ	1	1	1	1	١	ı	1555.5	0/100	\$00.9	1

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide 🗹 Phase Rin s Centered? 🔟 Approved By

Date:	Date:Time:
Relinquished by (Lab Use Only):	Received by (Lab Use Only):



15. MA 010... Wilm. A. MA 010... Tel: 978-688-3736 \*00-659-1202 Tel: 800-659-1202 Fax: 978-688-5494

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Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm Analyst 2 Initials KC والراد عن Not Applicable Not Applicable ۲۵ اگ 200.0 6'00'7 177 100.0 0:08 0.0 Result 0.0 700-0 (f/cc) しなって Omn 5.5/100 3.5/100 5.5/100 14.2/100 0//00 Fibers/Fields 0//100 9/60 Fiber Ct. 90)1 5/10 PROJECT MANAGER: PROJECT MONITOR: CONTRACTOR: S 033.0 1680.8 1045.5 1215.0 16/8:0 0.450 1059.0 Volume (liters) 96 9 Time (min.) 72 151 8.5 18.5 123 3 18-18 8181-9 ў У 8.5 8.5 مخ مخ 8.5 8.8 Ś Avg. Flow rate (Liters/min.) \*Sample Type; BG=Background, P=Prg-abatement, D=During, F = Final Clearance 8.5 ġ ∞ À <del>|</del> DATE COLLECTED: DATE ANALYZED: 1724m 135 n 8.5 Whom 130 m 8.5 1200m 133, 8.5 ō 10 pm 1120pm 85 815 pm 1126Am 9.7 1.5 m42211 - 1218 ₽ Time 5 PROJECT NAME: QUIC - East wing 3rd H \*Sample 3 B Type 为 P B D 0 PROJECT NUMBER: 48350-06432 de - - - Dan Connectu 13rd A Landin 2nd Isrd A Leveline **Duplicate Analysis** 1 3rd flow land 3rd floor cutside Connett East Starrwool Sample Location South Garrell South Stor Lee! -decon ESS STAN WELL Hall bin Blank Blank Analyst Signature\_ CLIENT Sample કુ Š S S 6 ₽ 3 5 8 B

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide U Phase Rings Centered? O

Approved By

Time:	Time:
Received by (Lab Use Only):	Time:

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155 West Street, Suite 6

PROJECT MONITOR: 2. how We wanted PROJECT MANAGER: JOHN NAZ CONTRACTOR: OWA DATE COLLECTED: (1)19/18 \_DATE ANALYZED: \_ಓ) (ಇ) PROJECT NUMBER: 98350-06932 PROJECT NAME: OMC. CLIENT: FOXIZE K

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<u>0</u>	Sample Location	20	ő	Off	ő	ЭЩ	Awg.	min.	liters	Fibers/Fields	ffcc	Initials
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02	Blank	,								0/100	Not Applicable	-
03	3rd flow andshilte Decom	٥	4530	8	90	00	0	90	1744	16/100	1,00	
70	East Stairwell grob/35	0	56.37	1805	00		00	318	PHLI	12/20	5003	2 14
05'	00 th storement 3 and floor	۵	31	100	03	90	00	218	hhL1	14 / 00	han	2
	3-3 flow outside Decon Hall C to	0	100	(335	35 8.0	90	0.0	37.5	1704	14/10	A00,	22.00
20	Egyd Stainwell and I grad floor	0	200	100	00	80	00	213	1704	13/20	hoo	2010
	South around 13 30 Floor	D	(0)	1342	0.	30	0	27.3	1704	10.5/100	, K	1
	9											
V.	Duplicate Analysis	70	3	j	00	0.	90	00	tht.	141,	li se	

Microscope Model: Olympus CH-2. Daily Calibration: HSE/NPL Slide Iz Phase Rinus Centered? Iz Approved By Analyst Signature\_

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Time: Time:

Date:

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	ח					ı						
Sample		*Sample	Time	пе	Flow ra	Flow rate Liters/min.	/min.	Time	Volume	Fiber Ct.	Result	Analyst
٥	Sample Location	Туре	ő	Off	ő	off	Avg.	(min.)	(liters)	Fibers/Fields	(t/cc)	
10	Blank								,	0/100	Not Applicable	-
02	Blank	1		,		1		,	1	9/100	Not Applicable	
63	3rd/2rd H Lending East Stair well		43 5 A.B.	138	\$.5	८.ऽ	S:5	(6)	1,419.5	5//60	100.0	_
٦	3rd fl Landing South it well	Δ	8 4e	135	8.7	8,5	9. 5.	8.5 8.5 169	1,436.5	65/100	2009	
% X,	3rd fl - cut side Lood out	À	50 139 8.5	1139 1139		8.5 8.5 169	8.3	169	1,4365	5.5/100	6.001	-
چ	3rd/2ndf1 landing at Stairwell		1136 11 Am	33 M	S.S	8.5 8.5	æ,×	123	1,045.5	5/100	200.0	_
٦	3rd fl Lending South Stair Well	0	135 MRM	57 78	8.5	8.5 8.5	ص ب	122	1,037-6	4.5/100	700.0	
<b>ల్</b>	Sud A - on state		85 M		8,5 8.5	8.5	8.7	134	1,654	3.5/100	100.9	
ملا	Duplicate Analysis		i	1	1	ı	I	1	200	3.5/100	(S). 6	

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide S Hase Rings Centered? D

Date: . Time: Date:			
	Date:	Time	
		Time.	

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Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm3 Initials Analyst A A ४ Chriec Not Applicable Not Applicable 500 200,0 700.0 John Viz 200.0 200.0 Result 200.0 2000 (1/cc) 7.6/100 65/100 Fibers/Fields 001)9 1768-0 8/100 8/100 Fiber Ct. 0//00 0//00 2/100 1/40 PROJECT MANAGER: PROJECT MONITOR: CONTRACTOR: 10965 1755.5 しなり 1105 27/7 Volume (liters) 4 (min.) 132 <u>Ti</u> 123 5 951 8:5 208 207 6-27-18 81129 ) 6.8 6.5 8×8 8.5 ६५ ६९९ BOSP 1132 6.5 6.5 6.5 Avg. 60 ١ Flow rate Liters/min. Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance 6.5 s Š ₽ DATE ANALYZED: DATE COLLECTED: 8.5 *ې* 8.5 8 8 ဝ် Approved By 808 (130) 803, 1130 11 St 41 을 <sup>토</sup> ₽ 1 87 Time بر س ် \*Sample Type Δ 0 0 0 0 0 98350-0692 decen - the liveral Contractor East Stairmell and I'm I Candi Surth Steinbell 19 2nd/3rd Allmin 2 3rd - Larel -Connecto **Duplicate Analysis** 3nd floor ourside SOUTH Startuce Sample Location 3rd Al-decan East Stairined PROJECT NAME: DOME Cox Reeve Hall PROJECT NUMBER: Blank Blank Analyst Signature\_ CLIENT: Sample S S 02 3  $\mathcal{E}$ 20 ₽ 2 <u>م</u>ي د 6

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide Let Phase Rin's Centered? Let

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	Relinquished by (Lab Use Only);	Date:	
		Date:	Ë



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PROJECT CLIENT:	PROJECT NUMBER: 98550-06922 CLIENT: FOX ROW	3	AD	TE COL	DATE COLLECTED:		6-22-18	120	PROJECT MANAGER:	NAGER:	John Ver	Con P.
PROJEC	PROJECT NAME: GMC - 8051 wm	mg 24	01 + Az	Almin					CONTRACTOR		2	P
Sample		*Sample	Ë	Time	Flow ra	Flow rate Liters/min.	'min.	Time	Volume	Fiber Ct.	Result	Analyst
٥	Sample Location	Туре	ő	ğ	б	₹	Avg.	(min.)	(liters)	Fibers/Fields	(t/cc)	Initials
10	Blank									0/100	Not Applicable	K
07	Blank		ı	,	•			_	-	0/100	Not Applicable	MC.
63	East Stair well sud I talk	Δ	757	교를	8.5	5-8	جن ا	75/ 11 ld 8.5 8.5 8.5 203	1785.5	۰۵)/ د	8-00-9	\
3	Sortu Stair well	0	754 7 Am	S)	75" 115 B.7 B.5 B.5 201	B-5	4.7	20/	1,786.5	6./100	70.07	
50	such floor children connote	Ö	003 887		803 117 8.5 PT 8.7 194	7	الم الم	18/	1,649.0 6/100	6/100	700.07	
30	East Sturrent End 3rd A	Q	\$	8	4 108, 87 RF 85 12C	40	Si Si	126	1,07/.8	3-5/100	100.9	
(9	Swar Startell	0	25	- 0	15 10 8-5 P.5 E.J.	۲	J. D.	137	977.5	٠٠١/ ٨	100.0	
80	300 Aloc-decen Hallos Con cter	0	_å	15 15	13 115 Boy Boy Boy 119	5.	8.5	511	10(1.5	2.5/10	6.00)	_
33	Duplicate Analysis	Δ		Ţ		1	7	١	1725.5	7/100	٥.٥٥	3
*Sample	*Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance	e-abateme	ent, D=D	uring, F	= Final	Cleara	nce	Analytic	Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm <sup>2</sup>	4 7400, Limit o	f Detection is 7	fibers/mm <sup>2</sup>

Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance Approved By Analyst Signature

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide F Phase Rin s Centered? F

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## **CERTIFICATE OF VISUAL INSPECTION**

Project Name: Quin cy Medical Center
Project Location: 114 Whitvet St., Owneying
Containment: East wing 3rd Floor
Material & Quantity Removed: 5,100 St Floor Hile & Mastic,
Contractor's Certification of Visual Inspection
Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges,
walls, decks) Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in
general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor,
sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.
Signature: Date: Date:
Print Name: WILSON So To
Print Title: Supurvisur
Contractor Name:Omoi
EFI Field Technician Certification
The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.
Signature: Date: Date:
Signature: Date: Date: Date: Date: Date:
•

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SOJEC	PROJECT NAME: CONTINUED TO SALL SALL SALL SALL SALL SALL SALL SAL	279	0/00/2						CACHICO			
		111	2	2					CONTRACTOR		Omn	
Sample		*Sample	Ë	Time	Flow ra	Flow rate (Liters/min.	/min.	Time	Volume	Fiber Ct.	Result	Analyst
₽	Sample Location	Туре	ő	₩o	δ	₩	Avg.	(min.)	(liters)	Fibers/Fields	(4/cc)	Initials
01 #	Blank			•					,	001/0	Not Applicable	771
02 <b>A</b>	Blank				1	ı	1			01/10	Not Applicable	771
63	West wins that way Concerts Aware	C)	835gm	835em 1001pm 15.4 13.2 154.	<u>د</u>	13.2	159	د 8	P. MC8/1	3//09	1000	Ä
ठ	west wing that way	U	& SORIM	SOM 1001 (5.6 15.415.6	٥	18.6	200	8	1,336.0	4/100	100.9	12/1
8	Hellowy ner pre-triting	u	8401	840m (boyen 15.6 15.6	7.6	و ارد ا	13:0	hS	p.018,1	00//5.2	100.7	ন
3	Halliam Mean Boys thorny forms of	п	至	PHIEN 1051 154 157 154 84	2/2	(5,	15.4	18	1,293.6	3//20	100.0	Z
٤	Hallvay center worth	cı	845	9.51 9.51 9.5 mlog1 15.8	و	و <u>څ</u>	9 121	\$	1,279.2	3/100	100-9	16
જ	Hall boom canter	4	E VIGH	58 9:51 9:51 1.5 1 13:001 49/N	ئ	و <u>ن</u>	اج ا	2	1,275.2	2//00	100.07	<u> </u>
9	South side of Contribution	4	8-48 pm 10.08	36.	03 751 751 751	15.4	18.6	æ	0.84211	3.5/100	0.00)	3
9	Such side of Containment	4	850n		رن	3	15.6	æ	0. 8/21	3/100	100.0	73
2	94 Duplicate Analysis F	t	ı	j	١	1		1	1.336.0	3/100	09.9	3

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide Thase Rin s Centered? The Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide Thase Rin s Centered?

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Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm Analyst Initials  $\mathbb{Z}$ Z <u>ر</u>  $\exists$ Z 7 V Z と Gare Not Applicable Not Applicable (0.00) 10.07 Result 0.0 10.00 0.00 (1/cc) 6.00/ -00·V 00. 6.00 John Oma 2.5/10 2.5/2 1,5/100 Fibers/Fields 5/100 Fiber Ct. 00/0 2/100 1/60 0/100 3/16 3//60 3/100 PROJECT MANAGER: PROJECT MONITOR: CONTRACTOR: 1466.4 5.97 61 1 h/h 1,450.8 9.63.6 8 866 9.651 1.474.4 1.474.4 Volume (liters) ટ Š (min.) Time % S  $\mathcal{E}$ 49 9 29 6-25-12 6-25 78 <u>ا</u>ک 105 12 1 15 15.4 15.4 1.51 (S. 15.6) 1/21 1/20 18: 1.51 9.51 7:51 WOM2 WOOL 1111111 12-45 15-6 15-6 15-6 Avg. 1108 PAT 1242 15-6 15-6 15-6 12.5 13.7 12.51 1 Flow rate Liters/min. 1059 1236 152 157 152 \*Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance 127 Q#O ١ DATE ANALYZED: DATE COLLECTED: 105 6 1235 15.2 ် 1 Approved By 112hr 24511 ₽ Time ő Sample Type ن 98350-06932  $\sigma$ U U U C L a amc - East wmg Hall way near pre-testing south side of containment South side of contamen **Duplicate Analysis** West wing Hell Way near Boys TAK WAY Fountain North Sample Location Connector North 30 VTA East of Hallade WEST OF HALLIAM Hallway Center Rock Hallway Center west wing PROJECT NUMBER: Connector Hall Way PROJECT NAME: P. corre Blank Blank Analyst Signature 02B 918 Sample **д**О ^ ح ₽ <u>ত</u> ۲ \_\_

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide 🔟 Phase Rin s Centered? 🗹

se Only):	Date:	Time:	
Received by (Lab Use Only):	Date:	Time:	



# **Certificate of Completion**

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St., Quincy, MA
Containment: East wing 3rd Pl
Note: Visual Inspection completed Friday 6.22.16
Contractor's Certification of Project Completion
Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.
Signature: Date: Date:
Print Name: WILSON SOTO
Print Title:SuperVisur
Contractor Name: DMni
EFI Field Technician Certification
The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.
Signature: Date: C-2578
Print Name: Kuyla Carnes
•



# **Certificate of Final Air Clearance**

Project Name: Quin Cy Mec	lical Center
Project Name: Quin Cy Mec Project Location: 114 Whitwell	st; Quincy, MA
Containment: East Wing 3rd	floor
EFI Project No.: 98350 - 0693	
EEI Contification of Final Air Classes	·
EFI Certification of Final Air Clearance	
	FINAL AIR CLEARANCE HAS BEEN ACHIVED FOR A. AN AIR SAMPLE CONCENTRATION OF:
0.00	Fibers per Cubic Centimeter (f/cc)
< LOD	Using Phased Contrast Microscopy
NIA	Structures per Millimeter Squared (f/cc)
Signature:	Using Transmission Electron Microscopy  Date: _ Cっとケイ&
Print Name: Kyla Carny	



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www.efiglobal.com PROJECT MANAGER: DATE COLLECTED: PROJECT NUMBER: 963 50 -06922

Sample		*Sample	Ē	Time	Flow ra	Flow rate Liters/min.	s/min.	Time	Volume	Fiber Ct.	Result	Analyst
٥	Sample Location	Туре	ő	<b>₩</b>	ő	Off	Avg.	(min.)	(liters)	Fibers/Fields	(#cc)	Initials
5	Blank									0/100	Not Applicable	Z
07	Blank				ı	ı	1	-		01/00	Not Applicable	7/2
0 X	Est wing at side	BG	745.	745 102 9.1		1.1 1.1	17	132	6.9/1/	10/100	0.003	2)
ho	Besement elevativ	BG	755	155hm (1355pm f. 1 f. 1 f. 1	U-	1.1	- 5	160	1,456.0 11.5/100	11.5//00	6.00.0	72/
01	East uny cot six	βĢ	1058	1234	5	6.7	63	1056 134 9.1 9.7 9.8	8/58	00//6	J00-0	7)
96	Resement elevation	86	-	192 Dam	3	16	6	5.1 9.1 9.1 102		500.9 00)/5.01	5.00.5	1/2/2/2
				-								
25	Distribution A solution	ò			1	l	ı		TILL'S	11 1000	/ * *	3
Unplicate Analysis No.	Duplicate Analysis	ż							0.6	00///	M 00:0	77

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide L Phase Rings Centered? C

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www.efiglobal.com PROJECT MANAGER: PROJECT MONITOR: CONTRACTOR: DATE ANALYZED: DATE COLLECTED: PROJECT NUMBER: PROJECT NAME: CLIENT:

Time	Sample Location	ם הקי		e e	Flow ra	Flow rate (Liters/min.)		Time	Volume	Fiber	2
Mart. 10.09. 1300 10.00.00.00.00.00.00.00.00.00.00.00.00.0	Blank	φ	ő	₩ O	ő			in,	liters	Fibers/Fields	Result [f/cc]
Mart. 10 92/4 1300 10-10-10-10-10-10-10-10-10-10-10-10-10-1	Blank									0/100	Not Applicat
M	1 1 1 1	s				+				0/100	Not Amicat
	Cultsur And How Cont		0%%	3300	-01	0 10	195		056	17	#00 W
S S Pre-hatement, D=During, F = Final Clearance	3/c dilag landing	0	_	30	10	10/10/	15	7	20/5	7	2000
is D=During, F = Final Clearance	-							-		6	1000
is D=During, F = Final Clearance		1									
is D=During, F = Final Clearance											
is Pre-hatement, D=During, F = Final Clearance				1			-	+			L'A
is Pre-hatement, D=During, F = Final Clearance											
is Pre-hatement, D=During, F = Final Clearance							L				
is P-Pre-hatement, D=During, F = Final Clearance		1									
is P-Pre-hatement, D=During, F = Final Clearance											
is P-Pre-hatement, D=During, F = Final Clearance				N		+	+				
is Pre-matement, D=During, F = Final Clearance						-	-	+			
is P-Prehatement, D=During, F = Final Clearance											
Pre-hatement, D=During, F = Final Clearance	8	0	1			1	7/	7	9		
		* ateme	$nt, D=D_0$	uring, F	= Final	Clearance	3	alvical N	Pethod: Mios	7,007	0.002

Time: Time:

Date: Date:

Relinquished by (Lab Use Only): Received by (Lab Use Only):



Sample		*Sample		Time	Flow ra	Flow rate Liters/min.	/min.)	Time	Volume	Fiber Ct.	Result	Analyst
₽	Sample Location	Туре	ő	₩ O	ő	₩	Avg.	(min.)	(liters)	Fibers/Fields	(f/cc)	Initials
5	Blank	•							,	9/9	Not Applicable	22/
02	Blank					,	,	ı		of Cas	Not Applicable	યુ
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8	South Starten	۵	810-1118 9.2 9.2 9.2	8	6.2	<u>ئ</u> م	2	32	1,729.6	7.5/100	7.5/100 0.002	7
<u>ه</u>	decon - Got stairw	۵	1	209	رب ن	9> 9-2	7	137	1,260.4	(0/10	0.005	<u> </u>
6	and Plat Side Load at - eleater lotte	Δ	1	33.	3	65	3	32 9. 9.7 9.7 9.2 137	1,260.4	٦ (رەە	200.0	ন
00	south statueu		111 6 PB.	B. 137	~	2,5	بہ ک	92 9.2 139	1,2788	9016	0.003	(ور
, <b>e</b> c		4							9	31,0	9	
	Unplicate Analysis	9	(	l	(	ı	l	l	1,27,55	8/	200-0	J

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ID Phase Rings Centered?

Received by (Lab Use Only): Time:	Received by (Lab Use Only): Time:	Relinquished by (Lab Use Only);	Date:	Time:	
		Received by (Lab Use Only):	Date:	Time:	



## **CERTIFICATE OF VISUAL INSPECTION**

Project Name: Quincy Medical Center
Project Location: 114 Whit well St., Quincy, MA
Containment: Admin blds - glove bags
Material & Quantity Removed: HCM Corrigated pipe Wrap. 1000 LF
Contractor's Certification of Visual Inspection Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks) Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.
Signature: Date: Date:
Print Name: MUSIN R. Solo
Print Title: Syparus
Contractor Name:
EFI Field Technician Certification
The EFI on-site representative hereby certifies that he/she has completed a visua inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.
Signature: Date: Date:
Print Name: Kuyla Carner



1f st St, Suite 6
Wilr, h, MA 01887
Tel: 978-688-3736
Tel: 800-659-1202
Fax: 978-688-5494
www.efiglobal.com

PROJECT MANAGER: John U. 2 81-2-2 DATE COLLECTED: 

		*Sample		Time	Flow ra	Flow rate Liters/min.	/min.	Lime	Volume	Fiber Ct.	Result	
٥	Sample Location	Туре	ő	ð	б	<b>₩</b>	Avg.	(min.)	(liters)	Fibers/Fields	(t/cc)	
10	Blank		_		·	-	·	ı		0//00	Not Applicable	
07		-			ŀ	ŀ	ŀ			0/100	Not Applicable	
\$0	50 - 200 H	٥	722	2 1050 P.S	4	Si	5:2	802	1,768.0	6/100	(20.0)	
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9	East Ling-2nd Al	0	732	100	732 1100 8.5 8.5 8.5	الك		8,0	1,768.0	CT/100	100.0	_
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	Eest Win -2nd Pl Buck in	0	139 139		85	8	كر	164	1,35%.0	6-5//06	200.0	1/2
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Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide Thase Rings Centered? The

Time:	Time:	
Date:	Date:	
Relinquished by (Lab Use Only):	Received by (Lab Use Only):	



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		- 1									, , , , , ,	
Sample		*Sample		Time	Flow r	Flow rate Liters/min.	s/min.	Time	Volume	Fiber Ct.	Result	Analyst
٥	Sample Location	Туре	ő	Off	ő	ð	Avg.	(min.)	(liters)	Fibers/Fields	(1/00)	Initials
5	Blank					·	١.	-		00/10	Not Applicable	ZZ
02	Blank		1			,	-	-		06/10	Not Applicable	ধ্র
33	East Ung 2nd 1	22	Lassy.	5.8 A 207 A726	\$	8.5 8.5	هن ا	125	0.11.0	colloc	0.007	-
ह	Eastwing 2nd fl	\$	70%	5	% %	8:5	8.5	706 911 8.5 8.5 8.5 125	1,062.5 5/100	5/100	200-9	
50	eest umg end fl	25	17	916 85	8.5	Š	8.5	太1	1,054.0	S.5/100	200.0	
y.	East 2 2 M A	35	965	3	8,	8.5 8.5	8.5	8	789.5	001/h	2000	
8	E-st wing Endfl	96	911°	035 n 8.5	8.5	8.2 8.5 84	<del>ه</del> .	48	714.0	3//00	200.0	
<b>3</b> 2	Sestiving 2008 At 1 cstel as	3	9/5	1041 A 8 8	\$	8,3	ه.>	58	722.5	3/100	6.007	
. <u>w</u>	Duplicate Analysis	<b>8</b>	1	A	i		1		3-26 6	3/100	200.0	7

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ID Phase Rinns Centered? ID

Relinquished by (Lab Use Only):	Date:	Time:	
Received by (Lab Use Only):	Date:	Time.	



www.efialobal.com PROJECT MANAGER: X. DATE COLLECTED: DATE ANALYZED: 

Sample Location  Blank  Blank  EN-24 Floar  EN-24 Floar  EN-340 Floar  EN-340 Floar  EN-340 Floar  EN-340 Floar  At h. A.	6.5 6.5 330 6.5 6.5 330 6.5 6.5 333 6.5 6.5 333		7/100	(6/20)	
Blank  Blank  EN-340 Floor  BAY DELON  BAY STAIRS  MY JEGAR LOOR  MY JAND FLOOR	6.5 6.5 6.5 6.5 6.5 6.5 7.7 6.5			(1)(2)	Initials
Blank EN-2ND Floor  By Dew Steirs  EN-3nd Floor  At Master Loadout  EV-3nd Floor  At By Shool	6.5 6.5 6.5 6.5 7.7 6.5 7.7 6.5			Not Applicable	3
EW-JUBFIOGN-  EW	2.8 5.8 2.8 5.8 2.8 5.8 2.8 5.8 3.8 5.8 3.8 5.8 5.8			Not Applicable	3
EN-Shed Floor- Bey, Steirs EN-Sho Floor  At Medre Lockerth  EV-2ho Floor  At B. A. 91.5  EW-2ho Floor  EW-2ho Floor  EW-2ho Floor	6.5 6.5			7	
EN-200 Floor  EN-200 Floor  EN-200 Floor  EV-200 Floor  EN-200 Floor	15. 7 15. 7 15. 7		Ĭ	0.0	
EV - 2ND FLOOR AT BLAK SHISS	7	-		Co.03	-
EV-2ND PLOCA AT BLA 91.15 EW-2NP Floor	0.0	190 1615		700.0	
	8.5 8.5			4.09 C	
25 At Wast Louden 1 10:18 15:27 6:3	85 85 189	-	7	100.0	-
O) Duplicate Analysis — — — —	1	- 6665	6/100	200.07	3

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide 🗹 Phase Rings Centered? 🗹

Time:	Time:	
Date:	Date:	
Relinquished by (Lab Use Only):	Received by (Lab Use Only):	



## **CERTIFICATE OF VISUAL INSPECTION**

Project Name: Quincy Medical Center
Project Location: 114 Whit well St, Quincy, WA
Containment: East Wmg 3rd floor.
Material & Quantity Removed: 500 LF pipe MSUlation / fitting c Stick pins
Contractor's Certification of Visual Inspection Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks) Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.
Signature: Wilson Soto Date: 7-578
Print Name: Wilson Soto
Print Title: Supervisor
Contractor Name: Omn;
EFI Field Technician Certification
The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.
Signature: Date: 7-5-18  Print Name: Carner

EFI Global <sup>®</sup>	EFI Global, Inc. ASBESTOS AIR SAMPI ING LOG (Version 3.9 Revised 6/06/13)	
Engineering Pa Environmental Serva.	PCM: NIOSH 7400 Method \ ision #3, Dated 8/15/1994)	
Client Name: Fox Ports.	Project #: 4%% 66% Lab ID: Microscope Cleaned:	sept 17
Client Address:	Microscope Number: [ 6 ]	Pass HSE-NPL Test Slide&Date: 7655
Collection Date: 716 18	(d): 76(8 2/100	Graticule Field Area (mm²): 0 0 0 0 7 8 4
Collected By: S. Vaz.		V Want Class
Droisort   Ocation: One in the Floor		Co. M. Co.

765 7/6/18

28200

Sample #	Location	Sample Type	Sample Pump Pump Type On Off	Pump Off	Time Mins	Roton	Rotometer Flow Rate (LPM)	ow Rate	Volume (Liters)	Loa	Actual Count	Adjusted Count *	Result *	Analyst ID
	Worker Name / SSN / Task	(1-10)	(1-10) hh:mm hh:mm	hh:mm	[A]	ő	₩	Ave [B]	A*B	(2.7 / C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
ō	Blank				d	Land Collection		ALCOHOL: CAS	1 2		0/(00	\$ Z D.	Do No Wi	I
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6	End Wing 2" Ploor	-	6:0%	HOI %0:9	246	<i>y</i> ;	8.5	A. 7.	246 8x 4.5 4.5 2091 0:00	0.00	8.5/10	1	0.00	-
ō	Ecs M. 2 - Chock Sun - 6 But Hul	-	0/3	CIO	CFO	8.5	6.5	رب بو	247 8.5 6.5 8.5 3400 0.00	9-0 20-0	9//p	ŧ	0.00.0	
92	East Wing - 200 Ploss		413	800		8.	5.6	8.5	346 65 65 85 2108,001	000	9/10	1	0.00°Z	
90	Ect Wing- 2" Floor	-	519	/nc <sub>i</sub>	48	(بر ض	م ض	ر ض	7.4	6.003	1241 84 85 8.5 85 714 0.003 60/lon	ſ	poo.0	
6	Ess Hing-due Floor	-	1016	5421 Hoi	35	6.5	مر در	% N	85 65 8.5 8.5 723 0.003 C/loo	0.095	807/5	1	h00.0	
Ģ	Ent Wing- are Floor	_	teot	346	28	5.9	2,5	کی فک	733	0.00	Date 85 6.5 8.5 7.33 0.003 45/100	1	S 00.0	-
80	Duplicate Analysis										4/100			N
	QA/QC Calculation	Abs Val x.225	ue [Sqr F	Root (firs	t density	- Sqr R	oot (dup	density)	<= 2.77 × ()	vg of the	Abs Value [Sqr Root (first density) - Sqr Root (dup density)] <= 2.77 x (Avg of the sq Root of the two counts) x.225	two counts	PassFail	A

\*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.

If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables area)

other than mentioned	ned				ייין איניין איין א	
Work Phase:	1) Area Background 2) Pre-Abatement/Prep	3) Asbestos Removal 4) Final Cleaning	5) Glove Bag Evolutions 7) Final Air Clearance	6) Personal Air Sample 8) Waste Load-Out	9) Other Associated Work 10) Blank	
Comments:	\					
Analyzed By:	The Market of the Contract of	Date:	Date: 7 / (%   (%			
Relinquished By:	By:	Date:	( Rece	Received By:	Date:	N.



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Sample Location   Sample   Time   Flow rate Litersmin,   Time   Volume   Flore Ct.	, CII (												
Sample Location	707EC	d)	8 mg	Dry C	Floor	H	j			CONTRAC	- [	noi.	
Sample Location Type on off on off Avg. (min.) (illers) Fibers/Fields  Blank  Blank  Blank  Blank  Sught Striver  South Striver  South Striver  D 130p 16381 6.5 8.5 8.5 187 1,547.0 8.5 100 100 100 100 100 100 100 100 100 10	Sample		*Sample	į.	me	Flow ra	te (Liters	min.)	Time	Volume	Fiber Ct.	Result	Analyst
Blank  Blank  South stair wen  South stair wen  D 130p 16391 8'5 8'5 180-1,547.0 8'5 100  Lebb Leed out  Epst stair wen  D 131p 1119, 8'5 8'5 8'5 184-1,564.0 10 100  Epst stair wen  South stair wen  Epst	٥	Sample Location	Туре	ő	#o	ō	ð	Avg.	(min.)	(liters)	Fibers/Fields	(f/cc)	Initials
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South stair well  South stair well  South stair well  D 130 p 1622 p 6 5 18 1 1528.5 7/100  South stair well  C 134 p 1632 p 6 6 6 184 1 1564.0 10 1100  Estate theory  South stair well  South stair well  C 10 p 1 1 119 p 6 6 6 8 6 8 17 1 1,504.5 11 1/100  Estate to be by - and fl  D 10 p 1 1 2 m 6 - 5 m 7 1 1 1,504.5 11 1/100  Estate to be by - and fl  D 10 p 1 1 2 m 6 - 5 f 6 7 1 1 1 1,504.5 11 1/100  Estate to be by - and fl  D 10 p 1 1 2 m 6 - 5 f 6 6 7 1 1 1 1,504.5 11 1/100  Estate to be by - and fl  D 10 p 1 1 2 m 6 - 5 f 6 6 7 1 1 1 1,504.5 11 1/100  Estate to be by - and fl  D 10 p 1 1 2 m 6 - 5 f 6 7 1 1 1 1,504.5 11 1/100  Estate to be by - and fl  D 10 p 1 1 2 m 6 - 5 f 6 7 1 1 1 1,504.5 11 1/100  Estate to be by - and fl  D 10 p 1 1 2 m 6 - 5 f 6 7 1 1 1 1 1,504.5 11 1/100  Estate to be by - and fl  D 10 p 1 1 2 m 6 - 5 f 6 7 1 1 1 1 1,504.5 11 1/100  Estate to be by - and fl	22	Blank		ı	1	ı	1		1		001/0	Not Applicable	3
South striructure.  2. 130 pt 1638 pt 5 pt 85 182 1,547.0 pt 100 to be a clear to the control of 100 to be a clear to the control of 100 to be a clear to the control of 100 to be a clear to the control of 100 to be a clear to the control of 100 to be a clear to the control of 100 to be a control o	~	Ethst Stary wen	Δ	न्।८	1617m	45	50	8.5	8	1,538.5	2/(00	200.0	ধ
2nd floor elevator  Lead or  Effect stair well  2nd floor  Effect stair well  South stair well  Could be shown to	کو	South stair wen	4	130 A	1638	<b>6</b> 5	<i>ھ</i> م	8 .S	£81		8.5/100	0.005	ब
EAST Stair Lucii  South Stair Lucii  Clevetur Lobor John 119 66 85 85 197 1,504.5 8/100  Clevetur Lobor John 10 1038 15 Lucii  Local Car	8	2nd floor elevator Cobon - Loud out	۵	1246	1638	ە ئە	3,	83	781	-	00   0)	0.003	ارد
South star luc!  South star luc!  Cleve to toboq-2nd Pl  Long ox	و (ک	EMBY Stainlucu	Δ	ML19	1118	10	30	بخ م		0.085/	8.5/100	200-9	\ \name{\gamma}
Elevator composition D 1038 Pisting 8-5 8-5 8-7 177 1,504.5 II 100	20	South star lucti	۵	म्प्रुव	0	8	ريا ف	e S	177	2.405,1	8/100	700.0	. યુ
	89	elevator Lobon-and Pl Logic ar	0	10384	35	8-5	ط ط	8.7	17.1	1,584.5	11 1606	0.003	3)
Duplicate Analysis D - 1 1 1 1 1 24 1-0 8/00	. 5	Duplicate Analysis	٥		١	1	1	١	١	0-45'1	8/2	0.00	3

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide E Phase Rin s Centered? E

Relinquished by (Lab Use Only):	Date:	. e 8	
Received by (Lab Use Only):	Date:		

FI Global

PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

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www.efialobal.com GMer Omni PROJECT MANAGER: PROJECT MONITOR: CONTRACTOR: 7-10-18 1-01-DATE COLLECTED: \_\_\_\_DATE ANALYZED:\_\_\_ CLIENT: FOX ROCK
PROJECT NAME: OM.C - ENS WM9 2nd PA PROJECT NUMBER: 58350 -06832

On Off On Off Avg. (min.) (liters)	8 5 8 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8	(min.) 190 190	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Fibers/Fields  6 60  0 60  7 5 60  7 5 60	Not Applicable Not Applicable 6-002 6-002	initials of A A A A A
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1013 8-5 (1017 8-5 R	8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5	190	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	00//00 7.5/100 7.5/100		य व व ब
1013, 8-5 (017, 8-58	8 4 8 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	190	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	7.5/100 7.5/100 4 [100		य य य
8 5.8 41107	8-5 8-3 8-5 8-8	191	1	7.5/100 4 1100	6-002	2 2
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115 4.58	5.5	178	100 115 0.585 85 178 1,513.0 6 100	9	209.07	7
211 28 28 28 175	۶۰ ۲۵ ۲۶	21.1	1,487.5	§ ) S	100-000)	lες
j j	1	١	0.513.0	(00.5)	(30)	
	ογ Duplicate Analysis $\overline{\mathcal{F}}$				0.512.1	

Time:

Date: Date:

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ビイPhase Rin s Centered? ロ

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PROJEC CLIENT:	PROJECT NUMBER: 98350-06932 CLIENT: Fox Rock	સ	/ <u>O</u>	DATE COLLECTED: DATE ANALYZED:	LECTE		7-11-18	8/-	PROJECT MANAGER: PROJECT MONITOR:		John Vez	٥
PROJEC	PROJECT NAME: QINC - CAST WING and		14						CONTRACTOR	6	1,	
Sample		*Sample		Time	Flow ra	Flow rate   Liters/min.	/min.)	Time	Volume	Fiber Ct.	Result	Analyst
٥	Sample Location	Туре	ő	)# O	ő	# <sub>O</sub>	Avg.	(min.)	(liters)	Fibers/Fields	(f/cc)	Initials
10	Blank									0//0	Not Applicable	N.
02	Blank				,		,	1		dro	Not Applicable	3
59	East Starwell	۵	S2 6 mm	953 8.5	8.5	8-5 8:5	sis.	181	538.5	6.5/100	200-0	<u>3</u>
50	South Stair well	۵	658	658 CSS	g.S	8.5 8.5	8.5	177	1,504.5	6/100	20.0)	ধ
8	Elevator Lobby	Ø	706 78m	3 4	8.5 8.5 8.5 173	ص ض	80	173	1,470.5		100.0	3
g.	East Stairwell and floor Lunger	2	SS B	60 Mg	100 8.5 8.5 P.J	8.5	4	061	1,6150	2//100	6.002	ž
દ	South Stairthell and floor Landin	0	955 981	100	4	4	ر د	01 8-5 B- 8-5 192			700.0	kc kc
<b>₽</b>	clevator cobby	a	م د د		12 FJ 858.5	85	4.4	hbl		42/100	100.9	KC
		(				(		,	V S		1	
»	Duplicate Analysis	2	١		ı		V		1358-3	9 /00	700.00	3
*Sample Type; I	"Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance Analyst Signature Approved By	re-abatem	ent, D=L	<b>D=During, F</b> Approved By	== Fina	l Cleara	nce	Analyti	Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm	4 7400, Limit o	of Detection is 7	fibers/mm

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide 🗹 Phase Rings Centered? 🗹

Time:	Time:	
Date:	Date:	
Relinquished by (Lab Use Only):	Received by (Lab Use Only):	



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MICK MCCORN Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm Eushz Analyst Initials 'n 3 5 IJ d 5 Not Applicable Not Applicable Charic 4003 100 5,83 280 5003 John Vez Result 4003 (30 (8) Omoi Fibers/Fields Fiber Ct. 7/18 184co PROJECT MANAGER: PROJECT MONITOR: 00/100 8 4,5 CONTRACTOR: 4 1645 \$ Volume (liters) 85 88 85 208 818585197 216 7 2 (min.) Time -12-18 8.T 25 85 195 28 8.5 S.S 85 Rr 85 Avg. 8585 Flow rate Liters/min.) \*Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance ð DATE ANALYZED: DATE COLLECTED: 200 ် Approved By hh: b 9:30 80:1 95:6 S:5 = 5: 11 1 46 6 *>!!* ₽ Time 9:42 V7.9 1.9 ် 2nd \*Sample Ż Туре 98356-06932 2 PROJECT NAME: QMC - East Wing Sest Sternen Food Supel Landing referen Bushall Face Worth Oral Roding SOLL Stairmen Please Loops **Duplicate Analysis** Sample Location 2 colfloc my good FOX ROCK art Stay PROJECT NUMBER: Blank Blank Analyst Signature\_ Sample ಶಿ 20 80 63 यु 02 ₽ 5

Time: Time:

Date: Date:

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide 区 Phase Rings Centered? 区

EFI 6 Global Gomplex 1800: Sold Solviton

PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

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Tel: 800-659-1202
Fax: 978-688-5494
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	STATE CAME FAST NING	49							CONTRACTOR	- 1	Omni	, thy
Sample		*Sample	F	Time	Flow	Flow rate   Liters/min.	min.)	Time	Volume	Elber C.	Bessel	Į,
٥	Sample Location	Туре	ő	# <sub>O</sub>	ē	ğ	Avg.	(min.)	(liters)	Fibers/Fields	_	Analyst Initials
6	Blank							i	1	0//0	Not Applicable	3
05	- 1					i		ı	•	0//0	Not Applicable	77
03	outside boiler room	ВС	7:50	4:58 7.5	7.5	7.5	2.5	128	960. D	2//08	7,000	-
0.4	e boiler r	BĠ	7:50	10:00 7.5	7.5	7.5	7.	130	975.0	8.8/100	1	
SO		98	10:22	12:25 8.5	6.5	8.5	5	[2]	028.5	2/100	_	
90	3	96	Sign	12:25 8:5 8.5	8.5	-	8 .S	021	_	6.5/100		
10	Elevator Nobby - 1st floor loa out	BG	07:01	2:26 8.5	6.5	8.5 8.5	-	92	(071.0)	7 100		7
										-		
90	Duplicate Analysis	655	l		1		ī		0.0501	6//00	0.00	>
Analyst Signature	Analyst Signature	-abateme	nt, D=D Ann	D=During, F = Final Clearance	= Final	Clearan	93	Analytic	sal Method: NIOS	H 7400, Limit	Analytical Method: NIOSH 7400, Limit of Detection Is 7 fibers/mm²	fibers

Time: Time:

Date: Date:

Relinquished by (Lab Use Only):\_\_\_\_\_\_Received by (Lab Use Only):\_\_\_\_\_\_

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www.efiglobal.com John Vaz Kayla Cyrnes PROJECT MANAGER: PROJECT MONITOR: 7-16-18 81-91-6 DATE COLLECTED: DATE ANALYZED: PROJECT NUMBER: 98350-06932 CLIENT: Fox Rock ZFI Global Grower sout Southers

Sample		*Sample	Ţ	Time	Flow ra	Flow rate   Liters/min.	/min.	Time	Volume	Fiber Ct.	Result	Analyst
۵	Sample Location	Туре	ő	# O	ő	₩ O#	Avg.	(min.)	(liters)	Fibers/Fields	(t/cc)	Initials
5	Blank		i				•			0//00	Not Applicable	Z
07	Blank		1	1	1	ı		ι	-	0/100	Not Applicable	3
S	west wing that wan	L	5124	512 638 15.2 15.2 15.2	15.7	15.2		9	7.307.2	(")	198.9	=
5	west wing that way	U	515pm	515 640 15.2 15.2 15.2 85	15.2	15.2	15.2	\$	0.636	2.5/100	100.07	
ş	thall way mean	4	SISpm	SIBMM 641m 15.2 14.8 150 83	15.2	-5- -6-6	15.0	83	1,245.0	00)) h	Q .00 J	
3	thellung center Inter-	u	Szl	52/m (43% 15.2 15.2 15.2 82	15.2	15.5	15.2	82	1,246.4	3.6/600	6.001	
6	Hallumy near fountain	L	Szz	S25 645 15.2 14.8 15.0 80	15.2	8.71	15.0	B	1,200.0	1,200.0 2.5/(00 60.00	700.07	
ජි	Healtwen Center Nowth	ں	75.13	527 648 15.2 146 15.0	18.5	95 P.	15.0	\$	1,215.0 2/100		700.07	
2	Hallwy Center South	U	53/11 652	ر دري ع	18.2	18.2 18.2 18.5 8/	18.2	18	1,231.2 3/100	2//00	709.07	
و	South side of contemporation	U	SSS	52 m 54 15.2 15.2 13.2 81	7:51	15.2	7.52	25	1,231.2	25/100	70.00	
	South Side of Contument	4	534F	53 # 65 # 152 15.2 15.2	15.5	18.7	15.2	$ \mathscr{E} $	1,216	1.5/100	10:00(	
5	Duplicate Analysis		1	1	ı	1	١	,	C.CV2	2.5/103	(6.00)	

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide 区 hase Rings Centered? 区

Approved By

Analyst Signature\_

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Received by (Lab Use Only):	Date:	Time:

2 96 2

PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

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PROJECT	PROJECT NUMBER: 98350-06932	489	۵	DATE COLLECTED:	LECTE	- 1	81-91-6	8)	PROJECT MANAGER:	ANAGER:	John Var	
PROJECT NAME:	amc- Fast	Wmg 2md	floo	BATE ANALYZED:	NALYZE		7-16-18	7.0	CONTRACTOR:	ONITOR:	Key (9	Cerner
Sample		*Sample	F	Time	Flow ra	Flow rate  Liters/min.	/min.1	Time	Volume	Fiber Ct.	Result	Analyst
Q	Sam le Location	Type	ő	JJO	ő	ð	Avg.	(min.)	(liters)	Fibers/Fields	(1/00)	Initials
01	Blank					1			-	0000	Not Applicable	ZC
05	Blank		•	-	,	1				0/100	Not Applicable	Z
4	west wing Hallway	u	38 1 Am	<b>8</b> 05	805" 16.2 15.2	182		2	4.666,1	3.5//00		
2	west wing than way	4	و الم	307 182 152 15.2	7:81	1.51	13:2	€ €	1.322.4	1.5/100	100.07	
크	Hallway near East	Ċ	35	808m	808th 15.2 15.2 15.2	13.7	13.5	(8	1,322.4 2.5/100	2.5/100	100.07	
51	Hallway ceviter Inter-	u		5.51 J.S. 15.51 18.0	18-2	5.		Z	1,307.2	2/100	100.07	
ر	Hallway new Fountain	U		8134 15.2.15.2 18.2 87	15.2	15.2	18.2	8	1.333.4	3/(00	100.0	
=	Hall way Center	山		813m	8134 15.3 14.8 15.0 85	85	15.0	50	SLEII	1/[00	60.001	
20	Hallum center	U		8 ISM	98 as1 8.41 4.51 ms18	8,41	a.S.I	و ط	0.092,1	2.5/100	0,001	
5_	South Side of continuent	如	HS 9	818 15.2 15.2 15.2 84	18.7	13.5	15.7	7%	1,231.2	25/100 (0.00)	(00.00)	
3	South Side of Containing	ب	ئے د ور	818m	818th 15.2 (5.2   5.2   83	(8.7	18.2	48	h.976.1	2/100	100.0>	
ક	Duplicate Analysis	U	Ì	١	f	1	1	l	1,246-4	05/12	100.00	3
*Sample	*Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance	e-abatem	ent, D=C	uring, F	: = Final	Cleara	nce	Analyti	Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm²	H 7400, Limit o	f Detection is 7	fibers/mm <sup>2</sup>

Microscope Model: Olympus CH-2 Dail alibration: HSE/NPL Slide ID Phase Rin's Centered? ID

Approved By

Analyst Signature



## **Certificate of Completion**

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St., Quincy, 14A
Containment: East Wing 2nd Fl
EFI Project No.: 98350-06932
Contractor's Certification of Project Completion
Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.
Signature: $\sqrt{\frac{500}{1500}}$ Sofo (Kc) Date: $\sqrt{\frac{7-16-18}{1500}}$
Print Name: Wilson Sato (KC)
Print Title: Supervisor
Contractor Name: OMni Environmental
EFI Field Technician Certification
The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.
Signature: Date: 7-16-18
Print Name: Kayla Carnes



## **CERTIFICATE OF VISUAL INSPECTION**

Project Name: <u>QUMCy Medical Center</u>
Project Location: 114 Whitell St., Quincy, WA
Containment: East Wing 2nd fl
Material & Quantity Removed: 8,500 SF Floor file & Mustic
Contractor's Certification of Visual Inspection Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks)
Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.
Signature: Wilson Soto Date: 7-16-18
Print Name: Wilson Soto
Print Title: Supervisur
Contractor Name: Omni Environmental
EFI Field Technician Certification
The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.
Signature: Date:
Print Name: Kayla Carnes



## **Certificate of Final Air Clearance**

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St., Quincy MA
Containment: East Wing - 2nd Fl
EFI Project No.: 98350 - 06932
EFI Certification of Final Air Clearance
THIS CERTIFICATE IS TO CERTIFY THAT FINAL AIR CLEARANCE HAS BEEN ACHIVED FOR THE ABOVE CONTAINMENT WORK AREA. AN AIR SAMPLE CONCENTRATION OF:
Fibers per Cubic Centimeter (f/cc) Using Phased Contrast Microscopy
Structures per Millimeter Squared (f/cc) Using Transmission Electron Microscopy
Signature:



15<sup>c</sup> Suite 6 Wilm, MA 01887 Tel: 978-688-3736 Tel: 800-659-1202 Fax: 978-688-5494

www.efiglobal.com McCarthy 162 John N)CK 35 PROJECT MANAGER:
PROJECT MONITOR:
CONTRACTOR: DATE COLLECTED:
DATE ANALYZED: - Backgrounds 06932 - east wing 98350 CLIENT: FOX ROCK PROJECT NAME: CMI PROJECT NUMBER:

Sample		*Sample	Time	e	Flow rat	Flow rate Liters/min.	min.	Time	Volume	Fiber Ct.	Result	Analyst
٥	Sample Location	Туре	ő	₩ O	б	₽	Avg.	(min.)	(liters)	Fibers/Fields	(f/cc)	Initials
20	Blank				i					9/100	Not Applicable	Kc
02	Blank				-		,	1	,	0/100	Not Applicable	KC
03	outside boiler house	99	6.56	5.2 2:01	7.5	7.5 7.5	7.5	206	1545.0	6/100	200.0>	
0	outsine beiner house	86	6:58	10:24 7:5		2.5	7.5	75 7.5 206	1545.0	5.5/1co	200.07	
20	13 = loor elevator	BĠ	7:91	82:01	10:28 3.5 8.5 8.5	8.5	12.8	48%	1734.0 8/100	8/100	0.002	
00	1 st 7 loor landing cutsick	BĠ	7.07	10:29	10:29 8.5 8.5 8.5	6.5	8.5	202	0.7171	8.5/100	₹00.9	
10	13 Floor back entance	86	11:1	10:30	1030 85 85 8.5 199	85	8.5	199	1091.5 6.5/100	6.5/100	100-0	
5		96	97:01	1:30	481 25 25 25 05:1 9	7.5	7.5	184	1380.0	8/100	2000	-
09	+s.u€	38	נן:01	1.23	10:17 1:28 7.5 25 7.5 191	K	7.5	18	1357.5 6-5/100	6-5/100	700.0	
0	1st time back on man	BG	05:01	127	8.5	6.5	N	8-51 5.8 5.8 52.102.0	15/3.0	6.5/100	700.0	
=	1st floor e eur or 1.56	BĠ	10:32	1:24	100	8.5 6	5.5	10:32 1:24 8.5 8.5 8.5 172	1462.0	5/100	100-0	
1.0	Duplicate Analysis	86	1	١	١	١	1	1	1545.0	\$1/00	0-001	K
*Sample	*Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance	e-abateme	ent, D=D	uring, F	= Final	Cleara	ace	Analytic	Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm²	4 7400, Limit o	f Detection is 7	fibers/mm

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide Phase Rin s Centered? L

Approved By

Analyst Signature



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Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm Analyst Initials Z MC M Mcarthy Not Applicable Not Applicable 100.0 Result (f/cc) John Fibers/Fields Fiber Ct. 900 PROJECT MANAGER: PROJECT MONITOR: CONTRACTOR: 0.295 Volume (liters) (min.) Time Avg. Flow rate |Liters/min.| \*Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance ₹ 00 DATE COLLECTED: DATE ANALYZED: ် 50 Approved By 1:26 9 Time 10:34 ် 'Sample Type 99 DL 932 **Duplicate Analysis** an ing PROJECT NUMBER: 98550 -CLIENT: For  $R \propto K$ containment Sample Location MO 200 outside PROJECT NAME: 154 Blank Blank Analyst Signature Sample 8 7 Ω 2

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide IV Phase Rin s Centered? I

Relinquished by (Lab Use Only);	Date:	Time:
Received by (Lab Use Only):	Date:	Time:



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www.effalobal.com Milart John Vaz PROJECT MANAGER:
PROJECT MONITOR:
CONTRACTOR: DATE COLLECTED: DATE ANALYZED: 06932 - past wina PROJECT NUMBER: 98350 - CLIENT:  $-\infty \times 0.000$  PROJECT NAME: QMC - 0.000

Sample		*Sample		Time	Flow ra	Flow rate   Liters/min.	min.)	Time	Volume	Fiber Ct.	Result	Analyst
٥	Sample Location	Туре	ō	ЭЩ	ē	₩ Ö	Avg.	(min.)	(liters)	Fibers/Fields	(t/cc)	Initials
5	Blank			·						0/100	Not Applicable	77/
02	Blank			ŀ		•	1	-		0100	Not Applicable	12
03	15 -100c 810cm 21	86	6:32	10:15	7.5	7.5	7.5	223	1672.5	5.5//60	100.0	
\$	1 St floor stair lading	78	6:34	1015	8.5.8.5	8.5	8.50	166	1878.5	6.2/100	100.0	
8	1st floor back entrance main hall	78	6:36	Ы:01	7.5	7.5	12	218	1635.0	5/100	150.0	
90	outside boile house	98	36.1	10:20 8.5		20 50	3.5	714	1819.0	8/100	200.0	
Lŷ	outside boiler house	84	(h:9)	S.8 52:01 84:9	5:	8.5 8.5	_	714	1819.0	9//00	200.0	
80	1st Floor back entrance main Hall	18 C	5/:01	1:0	7.5	7.5 7.5		180	1350.0	2/100	100.0	-
04	15 Floor elevator	Bb	1047	1:17	7.5	7.5	7.5	180	1350.0	7.5/100	0.002	
01	coopside builes	98	10:26	1.20 85		6.5	8.5	174	0.24	6/100	0.003	
-:	soon containment	38	82:01	1:22	8.5	8.5	25.00	hL/	1479.0	5 //00	0.001	
8	Duplicate Analysis	96	ï	1	ı	1	l	l	0.8281	2.5/100	100.0	1/2
*Sample 1	*Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance	e-abatem	ent, D=D	uring, F	: = Final	Cleara	исе	Analytic	Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm²	H 7400, Limit o	f Detection is 7	fibers/mm
Analyst Signature	nature /// (		Ap.	Approved By								

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ID Phase Rings Centered? IT

 •	 •	
Tim	Tim	
Date:	Date:	
Relinquished by (Lab Use Only):	Received by (Lab Use Only):	



www.efiglobal.com PROJECT MANAGER: 7 19 18 DATE COLLECTED: PROJECT NUMBER: 98350 - 06932

Sample		*Sample	F	ime	Flow ra	Flow rate Liters/min.	'min.	Time	Volume	Fiber Ct.	Result	Analyst
₽	Sample Location	Туре	ő	#o	ő	ð	Avg.	(min.)	(liters)	Fibers/Fields	(t/cc)	Initials
01	Blank		ŀ	,				-		0/00	Not Applicable	Z
02		'	,	١,	1	-	1		1	9100	Not Applicable	KC
03	entrance Main hall	986	02:9	10:50	7.	7.5	7.5	かな	2025.0	8/100	200.0	
5	13 love elevation	86	Vo: 22	73:01	27 9:01	7.5	7.5	5220	2025.0	10/100	200,9	
65	S.I	86	6:30	hs:01	8.5	8.5	8.5	492	2244.0	12/40	200.0	
00	outside boiles house	98	6:32	10:53	8,8	vó	8.5.	263	2235.5	15/60	0.003	
10	1st Floor back en mack	36	95:01	421	7.5	7.5	7.5	8771	0.0111	5/100	200.0	
80	ist loor elevator	Bu	0:53	1.76	2.5	7.5 7.5	7.5	841	0.011	4.5/100	200.9	
09	outside boiles house	Bir	14:01	1:30	8.5	85	8.5	149	1266.5	6/100	200-0	
	boys	120	11:03	1:37	J	3585	8:5	149	1266.5	6.3/100	0.005	
03	Duplicate Analysis	ر م	١	١	ļ	(	1	١	7075.0	W) X	000.0	9

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide Thase Rings Centered?

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www.efiglobal.com PROJECT MANAGER: PROJECT MONITOR 4) COLIC DATE COLLECTED: DATE ANALYZED: PROJECT NUMBER: 98350 ~ 06932 CLIENT: Fox Rock

Sample		*Sample	Ē	ime	Flow ra	Flow rate   Liters/min.	/min.	Time	Volume	Fiber Ct.	Result	Analyst
۵	Sample Location	Type	ő	ЭŒ	ő	#o	Avg.	(min.)	(liters)	Fibers/Fields	(f/cc)	Initials
10	Blank									0/100	Not Applicable	KC
02	Blank		·	i	,	1	ı	1	1	0000	Not Applicable	Z
03	dist floor back entrance, main hall	86	6:15	4:58	8-5 8-5 8-5	8.5	50	333	5.5681	2/100	100-9	
Ī	Is lost elevator lobby	86	6:17	9:59	50	S. 8 5.8		233	1,887.0	8.5/100	0.002	
05	outside boiles house	. 78	6:25	10:10	10:10 8.5 8.5 8.5	ý		225		4.5/100	6.002	
90	outside boiled house	86	12.9	/o.   <b>K</b> -S		8:5 8:5	\$	hee	1,904.0	9/100	\$00.0	
10	2st loss back entrance	86	10:00	05:21	12:30 8-5 8-5 8-5	8-5	8.8	150	1,275.0	09//60	100.9	
~ Q	1st los elevator lobby	98	70:01	1232 8.5 8.4 8.4	8.5	8.4	8.1	0 8	1275.0	5/100	200.0	
60	outsie boiler house	99	10.12	5-8 5-8 04-21	00	Si.	\$	156	1,326.0	65/100	200.9	
0	outside boile house	Bb	hı.01	7h:21	مل	<i>S</i> -8	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	15.47 8-5 8-5 156	1,326.0	6 /100	200.0	-
08 Duplicate Analysis BG	Duplicate Analysis	BG	1	ī	ı	J	1	ı	1775.0	6/100	5.002	1

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide T Phase Rings Centered?

Time:	Time:
Date:	Date:
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Fax: 978-688-5494
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CLIENT:	CLIENT: FOX ROLL PROJECT NAME: COMO - 6 AT 11 AND A	<u> </u>	2   2	DATE ANALYZED:	ATE ANALYZEI		7-2-16	0 B	PROJECT MANAGER: PROJECT MONITOR:	'	164 62 C	Carnel
	7		1 1	2	2	7			CONTRACTOR	IOR: Oppo	٠,٠	
Sample		*Sample		Time	Flow ra	Flow rate (Liters/min.)	min.)	Time	Volume	Fiber Ct.	Result	Analyst
٥	Sample Location	Туре	Б	<b>₩</b>	Б	ő	Avg.	(min.)	(liters)	Fibers/Fields	(t/cc)	Initials
10	Blank			i					,	0/100	Not Applicable	7
02	Blank		•	•	,		,			0/20	Not Applicable	-
63	the way 1st floor	۵	708	3101	8.2	8.5 F.5 P.T	J: J	190	0.519)	1.5/100	0.007	
50	Hadway 1st floor	۵	<u> १</u> ०८	1019 RJ P.5 B.5	E J	5		8	( 6(5.0 7 (1ac	7 (100	0.005	
δ	Boiler Harse	O	7,5	5201	1025 8.5 Bix 8.5	&iX		9	0.5)9,1	8.5/100	700-0	
و 0	Hallway 1st floor	0	899	108	1	8583	5	170	_	6.2/100	200.9	
Co	Hallway 1st Plock	۵	PIOI	109	OC1 8-8 8-5 170	8.5	8 8	2	1,445.0	7/100	2000	-
90	Baler House	Δ	5201	H11 5201	8.485871	S.	هر	59	1,436.5	(1 (00	0.003	
<i>و</i> ي 0	Duplicate Analysis	Δ	1	1	ļ	Ţ	Т	(	1,436-S	9.8/100	₹00.C	3
*Sample Type; Analyst Signature	*Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance	g-abatem	ent, D=L	D=During, F	= Final	Cleara	nce	Analyti	Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm	4 7400, Limit o	f Detection is 7	fibers/mm
			}	בי ביים								

Time:

Date: Date:

Microscope Model: <u>Olymbus CH-2</u> Daily Calibration: HSE/NPL Slide 位为hase Rings Centered? <u>中</u>

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.]	-

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide F Phase Rings Centered? E

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Received by (Lab Use Only):	Date:	Time:	

FI Global

PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

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		5 . ST. C.	7 7		9			4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TOTO CHICA			
	1 1	( , , , , , , , , , , , , , , , , , , ,		× 201 A=1 10=1	*				CONTRACTOR	IOK: OMNI	ŭ	İ
Sample		*Sample		Time	Flow ra	Flow rate Liters/min.	:/min.;	Time	Volume	Fiber Ct.	Result	Analyst
₽	Sample Location	Туре	б	ğ	δ	)#O	Avg.	(min.)	(liters)	Fibers/Fields	(f/cc)	Initials
5	Blank						-			0/100	Not Applicable	N.C
02	Blank		-		-	1	,	1		0//00	Not Applicable	-
03	ist floor Hallway	D	HEL	134 1630 B.S	ر ض	8. S	ط ض	و م	1,581.0	8.5/100	0.005	
50	Hallway Near Cloudy Decon	0	25	\$501 SEC	جو ک	8.5	مز	8.5 8.5 187		00)/8	₹00.9	
20	Boiler House	0	730	73 8601 OSL	٧ ض	مر ض	88 15	8	1,598.0	1.5/10	6-002	-
Q Q	1st Ploor Hallwan	0	1030	138	-	ن	4.7	811 67 67 118	11 1446	9 ([oc	0.005	
6	Hallway New Clotch	0	1033	1032 BG	۲.۶	4.7	6.7	=		4.5/100	20.07	
80	Boiler Howse	0	163\$	1.9 134 9.7	6	اربه	تن	ا إ	1	001/50	200.0	
£	Duplicate Analysis	0		1		ı	I	١	5.68.5	30	200.0	7

Time: Time:

Date: Date:

Microscope Model: Olympus CH-2 Daily Calibration; HSE/NPL Slide 正 Phase Rings Centered? 四

Relinquished by (Lab Use Only): Received by (Lab Use Only):

FI Global

PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

155 Y. Suite 6
Wilm. AN 01887
Tel: 978-688-3736
Tel: 800-659-1202
Fax: 978-688-5494
www.efiglobal.com

PROJECT MANAGER: ULZ 31-77-6 DATE COLLECTED: PROJECT NUMBER: 98350-06932

Sample Sample Location  O1 Blank  O2 Blank  O3 ISt Floor Hollway  O3 Helluky Near C b		,									7,	
		*Sample	F	lime	Flow ra	Flow rate (Liters/min.	'min.	Time	Volume	Fiber Ct.	Result	Analyst
	cation	Туре	ő	Off	ő	) Jo	Avg.	(min.)	(liters)	Fibers/Fields	(f/cc)	Initials
										0/100	Not Applicable	K
		1	•	1	·	1	1	ı		0 100	Not Applicable	1
	tallway	D	200	1010 8-S		8.5	457 CD	8	0.542.0	7.5/100	C00.0	
	Hallury Near Childg	a	715.		8.3	8.5	سا ص	1000 8.5 8.5 B.T 177	1,504.5	$\frac{8}{8}/100$	0.005	
65 Boiler House	touse	Ö	300	7 8.5 8.5 8.5	<i>بخ</i>	8.5	ا اف	178	1,513.0	201/5.07	700-9	
Ob 15t flax Hallwan	menth	0	0 0)	10°C (3 (4) 1.5 0.81	6.1	4.)	(3)	201	001/01 6.74611	001/01	₹00.0	
of Halliam Near C blodg	r c blog	٥	0 A	133	6.)	6.)	6.5	700	1949.7	15/100	0.003	
08 Boiler House	326	D	101	136 9.7 9.7 200	رن	<i>(</i> ;)	<u>ن</u>	36	0.075	12.5/100	0.003	-3
65 Duplicate	Duplicate Analysis	Δ		1	1	1	1	ı	1513.0	00) (	S. O. O.	3

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide 区 Phase Rings Centered? 区

Relinquished by (Lab Use Only):       Date:       Time:         Received by (Lab Use Only):       Date:       Time:				
Date:	Relinquished by (Lab Use Only):	Date:	Time.	
Date: Ti	Doorboat has done of the base			
		Date:	Time:	

PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

15f St, Suite 6 Wilm, MA 01887 Tel: 978-688-3736 Tel: 800-659-1202 Fax: 978-688-5494 www.efiglobal.com

2062

Sample Location													
Sample Location Type on off on off Avg. (min.) (lifers) Fibers/Fields  Blank  Blank  West Side  East Side  East Side  East Side  East Side  Contex of Carterine F 135, 903 pt 15.2 15.2 15.2 87 1, 337.6 3.5 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10	Sample		*Sample		ne	Flow ra	te Liters/	min.)	Time	Volume	Fiber Ct.	Result	Analyst
Blank  Blank  Let Side Lear Hinnear F 73, 100 15, 2 15, 2 18 1, 337, 6 3-5 100  Center of Gartenment F 73, 903 15, 2 15, 2 18, 2 18, 2 1, 330, 0 3 100  Center of Gartenment F 73, 903 15, 2 15, 2 18, 2 18, 2 18, 3, 5 100  Center of Gartenment F 73, 903 18, 2 18, 2 18, 2 18, 2 18, 3 100  Center of Gartenment F 73, 903 18, 2 18, 2 18, 2 18, 2 18, 3 100  Center of Gartenment F 73, 903 18, 2 18, 2 18, 2 18, 2 18, 3 100  Center of Gartenment F 73, 903 18, 2 18, 2 18, 2 18, 3 100  Center of Gartenment F 73, 903 18, 2 18, 2 18, 2 18, 3 100  Center of Gartenment F 73, 903 18, 2 18, 2 18, 2 18, 3 100  Center of Gartenment F 73, 903 18, 2 18, 2 18, 2 18, 3 100  Center of Gartenment F 73, 903 18, 2 18, 2 18, 2 18, 2 18, 3 100  Center of Gartenment F 73, 903 18, 2 18, 2 18, 2 18, 3 100  Center of Gartenment F 73, 903 18, 2 18, 2 18, 2 18, 3 100  Center of Gartenment F 73, 903 18, 2 18, 2 18, 2 18, 3 100  Center of Gartenment F 73, 903 18, 2 18, 2 18, 2 18, 3 100  Center of Gartenment F 73, 903 18, 2 18, 2 18, 2 18, 3 100  Center of Gartenment F 73, 903 18, 2 18, 2 18, 2 18, 3 100  Center of Gartenment F 73, 903 18, 2 18, 2 18, 2 18, 3 100  Center of Gartenment F 73, 903 18, 3 100  Center of Gartenment F 73, 903 18, 3 100  Center of Gartenment F 73, 903 18, 3 100  Center of Gartenment F 73, 903 18, 903	٥	Sample Location	Туре	δ	Off	б	) Jio	Avg.	(min.)	(liters)	Fibers/Fields	(t/cc)	Initials
Blank  West side  Let's side  Elist Side  Center of Center ment  The billion of the side  Center of Center in ment  The billion of the side  Center of Center in ment  The billion of the side in the	5	Blank								•	0/100	Not Applicable	Z
Eust side Eust side	07	Blank	-	1	,	1	,	١.	1		0/100	Not Applicable	-
Center of Center ment F 73-401 (5.2 (4.8 (5.0 38 1,300.0 3 100))  Center of Center ment F 35, 9037 (5.2 (5.2 (5.2 87 (1,322.4 3.5/100)))  Diminate Analysis E 1,332.4 3.5/100)	۸٥	west side of Centinhent	4	33.0	- 180 g	18.2	13.2	15.2	88	1,337.6	3.5 100	100.07	
Center of Gartinment F 135, 903m 15.2 15.2 87 1,322 4 3.5/100	70	ELST SIDE	4	735,	40 P	(5.2	(U.)	Q'S		0.068,1	3 100	100.9	
Directo Analysis C. J.	Y	Center of Contament	· L	735	903k	15-2	15.2				3.5/100	0.00(	-
Director Analysis 2.5(100)													
Direct Analysis Co. 1 2 2 3.5/(20)													
Direct Analysis Direct Analysis Direct Analysis Direct Dir													
Diminate Analysis 2 - 7 - 7 - 3.5/7/20													
Divilicate Analysis 2 3 S. 5/1/2/													
Danilicate Alialysis	٠ ک	Duplicate Analysis	u	١	1	V	1	j	1	h. &&&.	3.5/100	0.00	3

Time: Time:

Date: Date:

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide Lidentered Rings Centered? Ed-



### **Certificate of Completion**

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St., Quincy, MA
Containment: East Wing 1st Flast 10x10 connector
EFI Project No.: 98350 - 06932
Contractor's Certification of Project Completion
Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.
Signature: Ushu for Date: 7-26-18
Print Name: 18180N SoTo
Print Title: Super Uisar
Contractor Name:Omn;
EFI Field Technician Certification
The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.
Signature: Date:
Print Name: Kay 14 Cornes



### **CERTIFICATE OF VISUAL INSPECTION**

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St., Quincy, MA
Containment: East wing 1st floor 10 x10 Connector
Material & Quantity Removed: Floor tile & Black Mastic 605F
Contractor's Certification of Visual Inspection Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks) Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.
Signature: Uffon for Date: 7-26-18
Print Name: WISON R- SOTO
Print Title: Supervisco
Contractor Name:
EFI Field Technician Certification
The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.
Signature: Date:
Print Name: Kayla Carnes



# **Certificate of Final Air Clearance**

Project Name: Qumay Medical contex
Project Location: 114 Whitwell St., Quincy, MA
Containment: East wing 1st flow 10x10 Connector
EFI Project No.: 98350-06932
EFI Certification of Final Air Clearance
THIS CERTIFICATE IS TO CERTIFY THAT FINAL AIR CLEARANCE HAS BEEN ACHIVED FOR THE ABOVE CONTAINMENT WORK AREA. AN AIR SAMPLE CONCENTRATION OF:
Fibers per Cubic Centimeter (f/cc)
Fibers per Cubic Centimeter (f/cc)  Using Phased Contrast Microscopy
Structures per Millimeter Squared (f/cc) Using Transmission Electron Microscopy
Signature: Date:
Print Name: Kayla Carnes



DAEC.	rrojeci name: GWC - Eost who	*	Maer 9	1301 15V 1 10V	3				CONTRACTOR	TOR: Omno.	ni EMNYONMENTAI	i
Sample		*Sample		Time	Flow ra	Flow rate Liters/min.	/min.	Time	Volume	Fiber Ct.	Result	Analyst
٥	Sample Location	Туре	ő	JJO	Б	#o	Avg.	(min.)	(liters)	Fibers/Fields	(t/cc)	initials
10	Blank					Ī		-	'	0/ (00	Not Applicable	꼬
02	Blank	٠	·		1			1	-	001/0	Not Applicable	
53	1st Flay Hallway Loadout	2	195 284	25 8-5 8.5 B.S	S-8	من ٧	8.5	P.C.1	1,479.0	7 100	C00-0	
70	Hallway New C b	0	726 726	10 g 3	8,2	500	8.5	77 8.8 8.8 8.5 W. 17	1,504.5	2.5 (00	6.00.0	
150	Boiler House	À	32	32 pag	8,8	8.5 8.5	8,5	17.1	1,504.5	00) 01	800.0	
99	1st Floor Hallwy Lie Ook	0	ا ا ا ا	1.01 (0) 1.01 mg 10.1	1-01	16.1		<u>9</u>	1,474.6	8.5/80	-	
5	Hallwy Ner c boldy	0	500	0)7 Ce	[0.4	1-0-1	( <u>ð</u>	143	444.3	7 100	0.007	
90	Boiler House	0	500	\$5 C	10-1 10-01	10.1	J.01	143		00)	6-003	
90	Duplicate Analysis	0	1	١	1		1	1	シカーなっ	8/60	(00,5)	Z

Time: Time:

Date: Date:

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide TV Phase Rings Centered? TY

Comments:	Work Phase:	f Adjusted Count i original analysis an or a 25mm filter and	0) 0	02 DI	H 80	3 (0	06	8	11 110	03	0d	0	02/ B	01.4 BI		Samole #	_	Ref. Slide Data:	Microscope No:	Client Name: {	Site Name and Address
18. Maria (18)	1) Area Background 2) Pre-Abatement/Prep	*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the if original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/fids)*385)/(Volume * 7.8)	QA/QC Calculation	Duplicate Analysis	,,	burshe Bailer Room	,,	15+ FI Cast wing (atside)		outside Boiler Room	"	1st [1 Qust wird (outside)	Blank	Blank	Worker Name / SSN / Task	Location	(Number / fibers per field / Pass/Fail)	#1 - 7 - Res	Clarifores	FOX Row	Address: 114 Whitwell
	Asbestos Removal     Final Cleaning	er of 100um	Abs Val		_	-	) (	-	_		_				(1-10)	Sample	s/Fail)	1	2	C	4
	s Remova aning	port Result cal limit of d the concer	Abs Value [Sqr Root (first density) - Sqr Root (dup density)]<= x.225		1056	1056	1047	Cho!	Ú57	ds7	Cds1	0651			hh:mm	Pump		HSE-NPL Test Slide:	Microscope Cleaned:(Y) N	Collected By:	Quincy
Date:		as < LOQ. letection of stration calc	ot (first d		1336	1336 160	1331	133/	1056	9501	Lhod.	1047			hh:mm	Pump		Test Slid	e Cleane	6	HS
7/36/18	5) Glove Bag Evolutions 7) Final Air Clearance	Samples 5 Fibers/1 cutation is	ensity) - S		lbo	160	164	164	239	239	236	236	LO N	,	Þ	Time (Mins)	10.0	.e.	d: N	emre	Meth
118	ag Evolut	will be ma 00 Fields, ((fib/fids)*3	sqr Root (		8	$\omega$	∞	8	∞	$\infty$	$\infty$	න	Do Not Write in This Area		9	Rotom	(Numbe	1	Phase	Gle	02 169 02 169
	ions	intained un then a Fail 85)/(Votum	dup dens		00	8	00	<i>∞</i>	$\infty$	∞	00	a	in inis A	をいいます	읔	Rotometer Flow Rate (LPM)	(Number / Pass/Fail)	228	Phase Rings Aligne	alvan'o	sion #3,
	6) P	der the CC ed QC resi e * 7.85).	ity)]<= 2.7		00	8	8	8	8	∞,	00	∞	ưea.		Ave [B]		Fail)	٦	ligned:		Dated
	Personal Air Sample Waste Load-Out	JC Protoco ult is accep This calcul	77 × (Avg		1,280	1,280	1,312	1,312	1,912	1917	1,888	1,888			A*B=	Volume (Liters)	-		N A	0	Pr Pr
	r Sample d-Out	table. (De ation MUS	of the sq		600,0	400	£00,0	ta10	0.00(	0.00	0,001	1000			(2.7/C)	100	2	raticule F	Analyzed By:	Collection Date:	Project No.:
	100	s after receip nsity = (fibers T be adjusted	2.77 x (Avg of the sq Root of the two counts)	14/100	10/10	dio	12/100	1.5/100	11/100	16/100	tChoo	13,5/100	Oloo	0/18	(F/Flds)	Actual		ield Area (	ay: Dar	, iei	283
	9) Other Associated Work 10) Blank	t, unless instr /fields)/graticu l for variables	wo counts)		Rolos	2/100	12/100	Isho	11/ha	16/100	Choo	135/100	101 101 101	S 2 0	(F/Flds)	Adjusted Count *		(mm²):	anim (i	150/18	2500-00
	ciated Work	Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed offerwise. 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) unation is ((fib/fids)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned	Pass/Fail		0,004	0.003	0.004	0,006	0.003	0.004	0.004	O.ool	50 177	2 5	(F/CC)	Result *		Graticule Field Area (mm²): _0.00785	alunto		32
		<b>8</b>	R	2	R	2	R	2	R	2	R	20	D	R	Initials	Analyst					

FIGORAL GOLDON

PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

7 30 1

15 kt St, Suite 6 Wilr, A, MA 01887 Tel: 978-688-3736 Tel: 800-659-1202 Fax: 978-688-5494 www.efiglobal.com

		`										
Sample		*Sample		i i		ejen open en	j		i			
· <u>o</u>	Sample Location	Туре	ő	#o	Б	off Care	Avg.	(min.)	(liters)	Fibers/Fields	Kesuit (f/cc)	Analyst Initials
2	Blank						Ī			0/(00	Not Applicable	N
02	Blank	-	·		,				1	Colifor	Not Applicable	
03	Hallway (St Ploce	0	SS ASS A	000 B.S		ض	8:5	7:0	20%	10 [100	0,007	
bo	Hallway 1st Floor	٥	194°	5.8 700	\$	8 S	8.5	8.5 8.5 213	1 610.5	8.5/100	200.0	
20	Boiler House	Ö	635 A	608 8.5 8.5 13	8	8.8	مرا من	515	\$10.5	9 [00	200.0	
٥	Hallway 1st Hoor	0	0	7	7. 8. S. S	8	K. K.	8.5 8.5 192	1,632	4.5 (00	-	
50	Hell way 1st Flow	C	2001		Sign	\$.X	8.51	151	633.5	7.5 160	-	
00	Boiter House	0	8001		8.5	\$ <del>.</del> 5	\$ \$	190	1,615.0	114/100	6.003	
		-		-								
. 90	Duplicate Analysis	۵	1	1		ı	ı	(	161500	11/000	5,04.1)	2

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide LA Phase Rings Centered? La

Date:	Date:	
Relinquished by (Lab Use Only):	Received by (Lab Use Only):	

JFI & Global

PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

Sofa

wili., 'n, MA 01887 Tel: 978-688-3736 Tel: 800-659-1202 Fax: 978-688-5494

www.efigiobal.com Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm Initials Analyst Carner Not Applicable Not Applicable (0,00) 6,00 100.0 Result (g)(c) 00.0 Omo. 3.5//08 0.2//5.2 Fibers/Fields 3/100 001/0 00/10 Fiber Ct. 3 100 PROJECT MANAGER:
PROJECT MONITOR:
CONTRACTOR: 1,435.2 Volume 1419.6 (liters) 10 TO 67 (min.) Time ટ 7-31-18 5 -31-18 1 351 JON JON 150 150 150 9-51 9-51 9-51 USECULIES 8 8 10 8 15. 15. 15. Avg. Flow rate (Liters/min. 1 \*Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance LEFT ₽ DATE ANALYZED: DATE COLLECTED: CLIENT: GX ROCK DATE ANALY PROJECT NAME: QINC - East WING 18+ Floor Hallway δ 1 Approved By ₽ Time ် \*Sample Туре 4 U T PROJECT NUMBER: 98350-06932 Center Centamment 6/erater Storage 11000 Record **Duplicate Analysis** Sample Location - de - S-de 100x 100 Blank Blank Analyst Signature 4 40 UZ 20 \$50 02 A Sample Ы 57.0 ₽

Microscope Model: Olympus CH-2\_Daily Calibration: HSE/NPL Slide பே Phase Rings Centered? பு

	Time:	Time:
	Date:	Date:
telinguished by (Lab Use Only):	Received by (Lab Use Only):	
ď	8	



Project Name:

Quinay

### **Certificate of Completion**

Project Location: 114 Whitwell St. Qumin 197
Containment: East wing 1st Ploor Main Hallway Left / South East Side  EFI Project No.: 98350-06932
EFI Project No.: 98350-06432
Contractor's Cortification of Brainst Cornellation
Contractor's Certification of Project Completion
Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.
Signature: Date:
Print Name:
Print Title: P. M. C. P.
Contractor Name: ONNI FAVIRONMENTAL
EFI Field Technician Certification
The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.
Signature: Date:
Print Name: Kayla Carner



# **CERTIFICATE OF VISUAL INSPECTION**

Project Name:
Project Location: 14 Whitwell St., Quincy, 14
Containment: East wing 1st floor Main Hallway Left South East Side
Containment: East wing 1st floor Main Hallway Left South East Side  Material & Quantity Removed: 80 SF Floor tile & black mastic
Contractor's Certification of Visual Inspection
Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks)
Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.
Signature: Date: 7-31-18
Print Name: WILSON SOTO
Print Title: J. MGR
Contractor Name: MINI TANNER WENTHL
EFI Field Technician Certification
The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.
Signature: Date:
Print Name: Kayla Carnes



### **Certificate of Final Air Clearance**

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St. Quincy MA
Containment: East wing 1st floor Main Hallway Left South East Side
EFI Project No.: 98350 - 06932
EFI Certification of Final Air Clearance
THIS CERTIFICATE IS TO CERTIFY THAT FINAL AIR CLEARANCE HAS BEEN ACHIVED FOR THE ABOVE CONTAINMENT WORK AREA. AN AIR SAMPLE CONCENTRATION OF:
Fibers per Cubic Centimeter (f/cc) Using Phased Contrast Microscopy
Structures per Millimeter Squared (f/cc) Using Transmission Electron Microscopy
Signature: Date: 7-31-18  Print Name: Kauka Carnes

8118 Pass HSE-NPL Test Slide&Date: 7050 Graticule Field Area (mm²); ه٠٠٥٥٦٩٩٠ Analyzed By: الإسيال Dec 2017 Analyzed By: \_\_\_ EFI Global, Inc. ASBESTOS AIR SAMPI "IG LOG (Version 3.9 Revised 6/06/13) Microscope Cleaned: Ision #3, Dated 8/15/1994) Ref. Slide Data (No.&flb/fld): 72816 - 16/(00 Microscope Number: Fo21 Project #: 9838 06532 Lab ID: PCM: NIOSH 7400 Method (, I'M Floor F Bin w Haye Phase Rings Aligned: Project Location: AM - 6 control March Kendin ames Fox Rocie 8-1-8 Surce Client Address: Collection Date: Collected By:\_\_ EFI Global Client Name: Engineering Pare Environmental Services

Sample #	Location	Sample	Pum Pum Pum	Pum Off	Time (Mins)	_	Rotometer Flow Rate (LPM)	w Rate	Volume (Liters)	LOG	Actual Count	Adjusted Count *	Result *	Analyst ID
	Worker Name / SSN / Task	(1-10)	_	hh:mm hh:mm	[A]	o	#o	Ave [B]	A 8	(2.71C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
	Blank		Ī		ž	Table 100	THE PERSON	the Kee	1		0//0		Do No Wh	Z
ሪን	Field Blank				3	104	1 11 11	DO NOT WISE III THIS ALES	el		2//00	ot of	t ite	3
63	Hallway 1st floor	$\sim$	040 S	35	150	5.5	5.5	5.0	0 180 BS BS BS 1615 0001	0.001	8:5/60	(	0.00	-
	Hallway 15t floor Decen	2	W.	951 <sub>k</sub>	185	85	4	8	1514, 189 6.5 B.5 8.5 1606.5 0.001	J00.9	6-5//-0	ſ	(0.00 Z	
05	Boiley House	2	300	958	150	8	8.5	ج	14 958 190 8.5 8.7 Rights 0.001 10/10	100.0	001/01		6.003	
06	Hallway 18t Mocs Cachads	~	900		18/	چ. ج:۶	8.5	ار الحة ا	1. 19/ 8.5 8.5 8.5 1623.5 0.001 7.5/	0.00	7.5/	(	0 -002	
۲0	Hallway 15t floor	3	957	ı ≃ı	161	8.5	را ا	8	191 8.5 8.5 1623.5 0.001	190.0	00//1	(	6.002	
90	Boiler Horse	ζ	35	109	151	8.5	ب مل	8.5	191 8-5 8-5 623-5 0.001	109.0	an]/11	ı	500.0	
90	Duplicate Analysis										Co) 8			K
Pass	QA/QC Calculation	Abs Val x.225	Abs Value [Sqr Root x.225		t density	) - Sqr Rı	oot (dup	density)	<= 2.77 × (	Avg of the	(first density) - Sqr Root (dup density) $\leq 2.77 \times (\text{Avg of the sq Root of the two counts})$	e two count	s) Ress/Fail	N

"If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule instructed otherwise.

For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100mm the concentration calculation is ((fib/flds)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background 2) Pre-Abatement/Prep	3) Asbestos Removal 4) Final Cleaning	5) Glove Bag Evolutions 7) Final Air Clearance	6) Personal Air Sample 8) Waste Load-Out	9) Other Associated Work 10) Blank	10 0
Comments:						
Analyzed By:	My	Date: 8-176	1/10			1
Relinquished By	By:	Date: 🕶		Received By:	Date:	

2000 Analyst If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule \*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables Initials 274 Page\_\_\_jf\_\_\_ B 3 0-00785 Pass HSE-NPL Test Slide&Date: 755 Perstail Result \* Do 9-00( 100.0 (F/CC) Calacs 100.0 Other Associated Work
 Blank Not Write Abs Value [Sqr Root (first density) - Sqr Root (dup density)]<= 2.77 x (Avg of the sq Root of the two counts) x.225 Graticule Field Area (mm²): Adjusted (F/Flds) Count \* Do 1 Not ( Grance...
Analyzed By: ATR 13630 0000 5.5/100 1383.2 6.002 4//00 001/2 9000 Actual Count (F/Flds) 6.002 3/100 3/2 EFI Global, Inc. ASBESTOS AIR SAMPI "4G LOG (Version 3.9 Revised 6/06/13) Microscope Cleaned: 6) Personal Air Sample8) Waste Load-Out (2.71C) g Project Location: Dinc - Past Wing 1st Floor - Main Hallway North Cast side (Right) /sion #3, Dated 8/15/1994) Volume (Liters) A\*B= 93 152 15.2 13.2 1413.6 D Ref. Slide Data (No.&fib/fld): 72818 - 11/100 Do Not Write in This Area Rotometer Flow Rate Ave [B] 15,5 93, 101, 91 152 (52) 1 FOZ 11 251 75 5) Glove Bag Evolutions7) Final Air Clearance 8 Project #: fbs - ocs Lab ID: ō PCM: NIOSH 7400 Method ( Microscope Number: Phase Rings Aligned:\_ Sample Pump Pump Time 211-932 102 90 (Mins) ₹ 938 110 m hh:mm hh:mm 8 Date: 3) Asbestos Removal 4) Final Cleaning ō (1-10) ype Worker Name / SSN / Task West side simme center contamment Elevatur Lebel 2) Pre-Abatement/Prep QA/QC Calculation **Duplicate Analysis** 1) Area Background Cycn-cs Location Dumay Fox Pock Fist side -**Field Blank** Blank other than mentioned instructed otherwise. Collection Date: Client Address: Client Name: \_ Collected By: Analyzed By: EFI Global Comments: Engineering Par. Forestoomerstad Services. 03A 05A WHO Work Phase: Sample # 070 V

Received By:

Date:

Relinquished By:

Date:



# **Certificate of Completion**

Project Name: <u>Juincy Medical</u> (enter
Project Location: 114 Whitwal St., Owney, my
Containment: East wing 13+ Floor- Main Hall way Right North East Side
EFI Project No.: 98350-06935
Contractor's Certification of Project Completion
Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in
compliance with all applicable federal, state and local regulations. Contractor personnel were
properly trained, licensed and provided all the proper documentation to perform asbestos
abatement. Proper engineering controls were used throughout this project.
Signature: Without fate Date: 8-1-1/8
Print Name: WILSON 5070
Print Title: D. MGR
Contractor Name: MNI FANIROWHENTAL
EFI Field Technician Certification
The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.
Signature: Date: Date:
Print Name: Kayla Grnes
` 7



### **CERTIFICATE OF VISUAL INSPECTION**

Project Name: Quincy Medical Center
Project Location: 114 Whit Well St., Quincy 144
Containment: East Wing 1st flour - Main Hallway Right North East side
Material & Quantity Removed: 80 SF Floor File & MASTIC
Contractor's Certification of Visual Inspection Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks) Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.  Signature:  Date:  Date:  Print Name:
Print Title: PMGP
Contractor Name: <u>////////////////////////////////////</u>
EFI Field Technician Certification
The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.
Signature: Date: 8-1-18
Print Name: Kayla Grnes



# **Certificate of Final Air Clearance**

Project Name: Quincy Medical Ce	enter
Project Location: 114 Whit well	St. Quincy, MA
Containment: East wing 1st floor - Mair	Hallway Right / North East Sid
EFI Project No.: 98350-06432	
EFI Certification of Final Air Clearance	
THIS CERTIFICATE IS TO CERTIFY THAT FINAL AT THE ABOVE CONTAINMENT WORK AREA. AN A	
0-001	Fibers per Cubic Centimeter (f/cc) Using Phased Contrast Microscopy
N/A	Structures per Millimeter Squared (f/cc) Using Transmission Electron Microscopy
Signature: Kayla Carnes	Date: 8-1-18
· /·	

Page\_\_\_)f\_\_\_0£1 Analyst Initials 习 R ₽ Pass HSE-NPL Test Slide&Date: 7050 D8200-0 Pass/Fail 200.0 200.0 1003 700-0 200-0 6.03 Result \* Do 650 (F/CC) Not Write Dec 2018 Abs Value [Sqr Root (first density) - Sqr Root (dup density)]<= 2.77 x (Avg of the sq Root of the two counts) x.225 Graticule Field Area (mm²): Adjusted Count \* Do (F/Flds) 1 ( ( Not ( ( 1 Write 7.5/100 8.5/cm 00/5/00 10/100 7//08 Actual Count 0 (00 0/100 (F/Flds) 8/60 05)/<sub>9</sub> Analyzed By: EFI Global, Inc. ASBESTOS AIR SAMPI "IG LOG (Version 3.9 Revised 6/06/13) Microscope Cleaned: (2.7 / C) 1000 278h gon 1479.0 0.00( 0.001 1436.5 600( 8-5 H76-5 0.001 362 165 169 8.5 8-5 625 436-5 cool 476.0 sion #3, Dated 8/15/1994) = G B G Volume (ters) 9/100 Buck granned Rotometer Flow Rate (LPM) Do Not Write in This Area 8.3 ا الا \ \ 8.0 Ave [B] Ref. Slide Data (No.&fib/fld): 7 3(6) 112071 S S \$ 85 85 85 PK1 0111 ALIO D-8 5-8 461 211 HS10 8 Lab ID: 18-5 1 5 ő PCM: NIOSH 7400 Method (1 1st Floor - Boiler Howk Phase Rings Aligned: -54 10181 CG Project #: <u>-0</u>693λ Microscope Number: Sample Pump Pump Time Type On Off (Mins) 1017 169 EC1 - 311 M 5501 ₹ hh:mm hh:mm 22 (1-10) ype 3 5 5 ン 5 7 Worker Name / SSN / Task Hallway 15t Floor floor Bime Fest Boiler House **Duplicate Analysis** QA/QC Calculation Hallway 1st Floor Boiler House Hallwy 1st Floor Location Karly Carnes Load on thallowy (27 Fox Rock Decon Orma Load of Field Blank 0577 Blank Project Location: Collection Date: Client Address: EFI Global<sup>®</sup> Collected By: Engineering Pare Frydomenská Sevnon. Client Name: Sample # 6 *ر* ق 80 ô 7 β 8 6 0

"If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.

If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables

ther than mentioned	ned					
Work Phase:	1) Area Background 2) Pre-Abatement/Prep	3) Asbestos Removal 4) Final Cleaning	5) Glove Bag Evolutions 7) Final Air Clearance	6) Personal Air Sample 8) Waste Load-Out	9) Other Associated Work 10) Blank	
Comments:						ľ
Analyzed By:	Molac	Date: 🔨	Date: \$ -2 -78			
Relinquished By:	By:	Date:	Rece	Received Bv.	Date:	

100 33.58 Analyst Initials \*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables Š, 8 ۳. Pass HSE-NPL Test Slide&Date: <u>メッ含o</u> Pas₃/Fail Page\_ 0-003 Do 200.0 (0.003 6-003 Result \* 0.003 (F/CC) 6000 Ser. Not Write Abs Value [Sqr Root (first density) - Sqr Root (dup density)]<= 2.77 x (Avg of the sq Root of the two counts) x.225 Dec 3077 Graticule Field Area (mm²): Adjusted Count \* (F/Flds) Do ( Not 1 1 1 1 Write المح)/د 8.5//00 10011011111 8/100 129 8.5 8.5 1096.86.002 7.5/100 8.5 1132 0.002 10.5/100 (F/Flds) 0/100 Actual Count 9100 738 last 168 8.5 85 87 1438, 0.00 10 las Analyzed By: \_ EFI Global, Inc. ASBESTOS AIR SAMPI 'NG LOG (Version 3.9 Revised 6/06/13) Microscope Cleaned: 6) Personal Air Sample 8) Waste Load-Out 1200 8-18-5 | S.S. | S.S. | S.S. | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 1 (2.71C) B+ B7 B5 1436-50001 163 169 185 18·5 18·5 184-5 10·001 g sion #3, Dated 8/15/1994) Volume A \* B = Liters ō 8/100 Do Not Write In This Area Ave [B] Rotometer Flow Rate Ref. Slide Data (No.&fib/fld): 73(+5) 5.8/1.8 5) Glove Bag Evolutions 7) Final Air Clearance 9 Microscope Number: 1 5020 Lab ID: 5 PCM: NIOSH 7400 Method (, Phase Rings Aligned: Sample Pump Pump Time a Boiler House. 1622 [69 75/ get 190 Project #: 06932  $\Xi$ hh:mm hh:mm 182 600 Asbestos Removal
 Final Cleaning 733 23 ž (1-10) Type ᠰ ሊ 3 3 ょ amc - Cast wing Worker Name / SSN / Task 1 × (100x Hallway 154 floor 1) Area Background
2) Pre-Abatement/Prep 15. Floor Hallway 1st flow Boiler Horse **Duplicate Analysis** QA/QC Calculation Location Boiler Horse Lewis Consos QUINCY 8-3-18 oadow lad af FOST REST Degan Decen Field Blank Hallway Hallway Blank other than mentioned Project Location: Collection Date:\_ instructed otherwise Client Address: EFI Global Client Name: Collected By: Engineering Pare Work Phase: Sample # 60 ς, و 5 0 50 8 છ  $\tilde{\circ}$ 

Received By:

31-5-8

Date: Date:

Relinquished By:

Analyzed By: Comments:

Other Associated Work
 Blank

Date:

Pass HSE-NPL Test Slide&Date: <u>ገመ</u> *§--*6ન્ય 5250000 Page\_ Corner Graticule Field Area (mm²): \_\_ Kanla Analyzed By: \_ EFI Global, Inc. ASBESTOS AIR SAMPI ING LOG (Version 3.9 Revised 6/06/13) Microscope Cleaned: sion #3, Dated 8/15/1994) 11/100 Ref. Slide Data (No.&fib/fld): า3นุเง Microscope Number: | Fo2|| Project #: [3350-0c43 Lab ID: PCM: NIOSH 7400 Method (, Phase Rings Aligned:\_ + Boiler House 1st Floor Project Location: QMC - East way Kenyla Carnes FOX ROCK BUSINGY MANA 8-6-16 Collection Date: Client Address: EFI Global Collected By: Client Name: Engiloweing, Pare Englishmental Sevince

Sample #	Location	Sample	Pump O n	Sample Pump Pump	Time	Roton	Rotometer Flow Rate	ow Rate	Volume	g	Actual	Adjusted	Result *	Analyst
	Worker Name / SSN / Task	(1-10)	hh:mm	(1-10) hh:mm hh:mm		ō	₩o	Ave [B]	A * B	(2.7 / C)		(F/Flds)	(F/CC)	Initials
01 A	Blank				t	CONTRACTOR OF THE PARTY OF THE	100	ALCONO.			0 00	N N	Do No W	Z
02 A	Field Blank	I			8	NOT VVC	ite in	Lo Not Write in This Area	40	13:00	lot col/o	Do lot rite	ot hite	
63	Hallway 1st Ploor	-	725n	010	جِ ا	6:5	8	V.	1419.5	700.07	725 1010 167 P.5 R.5 1415,5 60002 7.5/100	1	U.005	
20	Hallum, 1st Flow Decon		724a (0)	Olle	رها	8:5	8.5	8-5	00/15.8 20000 SPH S-8 5.8 5.8 LOI	700.07	8.2//00	(	0.003	
0.3	Boiler House	M	35	1017	(9)	ب من	8.5	8.5	130 1017 16) 8.5 8.5 KIS 1419.5 6-002 10-1100	700-0	10-(100	(	6.003	
ን 0	Hallway 13t floor	_	000	1010 a 10%	178	8	8.5	Sign	178 8.5 8.5 8.5 513 0.001 6/00	9.60	6/00	(	6.003	
ره	Hullvey 1st Flack Decon	_	P01 M O	-501	90	S	& S	8.5	00/1/5-17 100.0 5151 8.5 8.5 1514 01	100.0	7.5/100	(	0.005	
8	Boiler House	س	PI ALIOI	. 0	Ę	\ \ \ \ \	٧٠ ف	8.5	001/11 85 8.5 15075 0.001 LILLUD	0.001	00//11	ı	\$003	
50	Duplicate Analysis										10.5/100			K
	QA/QC Calculation	Abs Vali x.225	Abs Value [Sqr Root x.225		density	- Sqr R	oot (dup	density)]	<= 2.77 × (	vg of the s	(first density) - Sqr Root (dup density)]<= $2.77 \times (4 \text{ Ng})$ of the sq Root of the two counts)	two counts	PaskFail	B

"If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.

If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule

For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables Other Associated Work
 Blank 6) Personal Air Sample 8) Waste Load-Out 5) Glove Bag Evolutions 7) Final Air Clearance 3) Asbestos Removal 4) Final Cleaning 1) Area Background 2) Pre-Abatement/Prep other than mentioned Work Phase:

Comments:			
Analyzed By:	Date: 8-6-(8		
Relinquished By:	Date:	Received By:	Date

Page\_ ) augh Pass HSE-NPL Test Slide&Date: 7050 8 6/8 Graticule Field Area (mm²): 0.0788 Cermes LINE WAY See 1 Analyzed By: \_\_\_ EFI Global, Inc. ASBESTOS AIR SAMPI ''G LOG (Version 3.9 Revised 6/06/13) PCM: NIOSH 7400 Method (1 sion #3, Dated 8/15/1994) Microscope Cleaned:\_ Phase Rings Aligned: Yes Ref. Slide Data (No.&fib/fld): ह्याड - प्राप्ट Microscope Number: 16 0 2 n Project #: 38350-06931 Lab ID: FINAL ATR 15+ F Dear Project Location: DWC - Eact Winner Kuyla Garnes BUMCH . fox Poct 8-6-18 Collection Date: Client Address: EFI Global Collected By: Client Name: \_ Engineering Par-Engineering Sevence.

Sample #	Location or	Sample Pump Pump Type On Off	Pump On	Pump Off	Time (Mins)	_	meter Fir (LPM)	Rotometer Flow Rate (LPM)	Volume (Liters)	LOQ	Actual Count	Adjusted Count *	Result *	Analyst
	Worker Name / SSN / Task	(1-10)	hh:mm hh:mm	hh:mm	₹	o	ЭЩ	Ave [B]	= ₽ ©	(2.71C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
018	Blank				Č	Chair LA F.	- THE TAN	A STATE	1 S		04/00	N S	Do No	7
220	Field Blank				3	10	III DIII	DO NOT WITH THIS AVER			0//00	o ot rite	_	-
	West side Hallway	ŗ	25	70	į						2 / (2.5)			F
40	North West Corner	-	>0 ₹	10 pm	<b>&amp;</b> 3	15.6	25	751	10 pm 83 15.6 St 154 1,275.2 0002	100p	2//00	l	100.0	
T C	luest side Hallman	٢	434	802	8	3	2	# 4.	( % ( )	60.0	رمرا / ۱۸ رمرم رگرد ا	l	120	
3	West - center thellim		¥	ŧ		>	7.5	からし つうし ラシュ	3.0/7	3	00//		120.0	
	West side Hellum		070	50	Ş						_			
036	South west roner	7	S Da	9	22	9  S	اي. اي	15.6 15.6	700.0 8.162	200.0	1.3/80	ï	700.97	
	East side Hallway		no	7	į									
400	Salta Sest correr		Q M	0	82	ج <u>ان</u>	から	رد	8.4521	200-0	83 156 15-4 15-6 1,294.8 6-002 1/00	ſ	10.0J	
	East Side Hall way	7	7	5							71.0			
05F	Falt - Center whillson		Prim Office	2	9	<u>د</u> اي	13:5	(5)	15.4 15.2 15.4 1.278.2 0.002	200.0	8/5.5	1	100.07	
1	East Side Hall com	5	200	7	ć			: 0	3.5		2511			
ود	Noch Zest Corner	11.000000000000000000000000000000000000	o o	0	2	ا <u>ي</u> د	(3.7	ナシー	7.8/71	200.0	87/c. (200.0 2.9/71/ h.s.) 7.5/ 7.5/	ľ	0.00	
300	Duplicate Analysis										3//00			Ke
Pass	QA/QC Calculation	Abs Val	Abs Value [Sqr Root x.225		density	) - Sqr F	Root (dup	o density)]	<= 2.77 × (	vg of the	(first density) - Sqr Root (dup density)]<= $2.77 \times (^4 \text{ vg}$ of the sq Root of the two counts)	e two count	s) PassFail	6
													\	

\*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.

If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is (/filt/flds)\*385////olume \* 7 85). This

other than mentioned				(columns) 300/(columns 7:00).	in the deficient defendation is ((inclines) 303)/(Volume 1.03). This calculation filed to adjusted for Variables
Work Phase:	1) Area Background 2) Pre-Abatement/Prep	3) Asbestos Removal 4) Final Cleaning	5) Glove Bag Evolutions 7) Final Air Clearance	6) Personal Air Sample 8) Waste Load-Out	9) Other Associated Work 10) Blank
Comments:	(				
Analyzed By:	KC	Date: 8.6.18	8/-9:		
Relinquished By:	.ya	Date:	Rece	Received By:	Date

Page\_ )f\_dqq Pass HSE-NPL Test Slide&Date: 200 86/9 6.00785 Kayla Carnes Graticule Field Area (mm²): Analyzed By: EFI Global, Inc. ASBESTOS AIR SAMPI "IG LOG (Version 3.9 Revised 6/06/13) Microscope Cleaned: \_ Raind 3 sion #3, Dated 8/15/1994) CLEARANCE Ref. Slide Data (No.&fib/fld): 676 4 100 l Project #: 98329-0683 Lab ID: Microscope Number: 150211 PCM: NIOSH 7400 Method (i Phase Rings Aligned: FINAL AGE Project Location: Que - Eest Wing Man (a Cornes 8-6-18 tox Park Bingy Collection Date: Client Address: Client Name: \_ EFI Global Collected By: Engineering Pare. Engineering Sevices.

Sample #	Location or	Sample Pump Pu Type On C	Pump On	Pump Off	Time (Mins)	Roton	neter Flo (LPM)	Rotometer Flow Rate (LPM)	Volume (Liters)	g	Actual Count	Adjusted Count *	Result *	Analyst ID
	Worker Name / SSN / Task	(1-10)	(1-10) hh:mm hh:	hh:mm	Æ	ő	ЭЩ	Ave [B]	A*B=	(2.71C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
	Blank				1	NAME OF STREET	1	WHEN A NAME	N.		ſ	523	Do No W	A
١	Field Blank				000	AN HON	ile in	Do not write in this Area.			1	lot rite	ot nite	Z
21.0	West Side Hallwan	7	7001	25	2	15.2	۲ <u>۶</u>	15,2	152 15.2 13.2 1,368 (0.002 3/100	700.0)	3//00	1	100.0	
x 90	west side Hallman West - the Ill	~	5001	84	ු ල	ر اک	[5. 1. 2. 1.	13.2	15.2 [3.2 [3.68 (6.002	200.0	2.3//00	ι	(0.00)	
09 F	brest side the itway	۲	5091	2.4	e	156	86	5	90 136 13.6 13.6 1,4 04 60.00L	700.9)	1/08	ı	(0.601	
185	Ecet Side Hallway Sovoth cost	_	100	75 g	29	35	و	و ا ا	1, 4 04	700-07	156 15.6 15.6 1, you 60.002 3.5//00	١	100.0	
411	Eust size thallows Eust - C. ter thallows	7	200	S. E.	16	7.5	5.7	(S)	5.2 15.2 (5.) 1,383.2 6.002 2/100	(6.00)	2/60	ı	109.07	
721	Eustide Hallway	_	1005	₹ <u>1</u>	19	15:5	5.2	(81)	15.215.2 182 1383.2 6002 3/100	(0.00r	3//00	1	)00.0	
12.5	Duplicate Analysis										3.5//00			
Puss	QA/QC Calculation	Abs Vall x.225	e [Sqr F	oot (firs	density)	- Sqr R	oot (du	density)]	<= 2.77 × (	vg of the s	Abs Value [Sqr Root (first density) - Sqr Root (dup density)]<= 2.77 x (Avg of the sq Root of the two counts) x.225	e two counts	s) Paral Fail	-1

If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule "If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.

For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is (/flb/flds)\*385/(Volume \* 7 R5) This calculation MI IST he administed

other than mentioned	bed			Juds) 505//(Volume 7:85/: 11	other than mentioned
Work Phase:	Area Background     Pre-Abatement/Prep	3) Asbestos Removal 4) Final Cleaning	5) Glove Bag Evolutions 7) Final Air Clearance	6) Personal Air Sample 8) Waste Load-Out	9) Other Associated Work 10) Blank
Comments:	1				
Analyzed By:	74	Date:	Date: 8-6-16		
Relinquished Bv:	 	Date:	Rece	Received Bv.	Date:

h fo h		8 98 0	78.7	OV.	
Page_	2	&Date: 705	.00.0	(grace	
	NO 2017	L Test Slide	I Area (mm²)	A Sala	-
ed 6/06/13)	Cleaned:	Pass HSE-NPL Test Slide&Date: 7050 86.8	Graticule Field Area (mm²); 0.0078	Analyzed By: Kanla Carnes	
on 3.9 Revis 8/15/1994)	Microscope (	<u>a.</u>		4	303
<b>OS AIR SAMPI '4G LOG</b> (Version 3.9 Revised 6/06/13) 4 7400 Method ( islon #3, Dated 8/15/1994)	Project #: প্রিফ-০৻৭য়ু Lab ID: — Microscope Cleaned: প্র	3	Ref. Slide Data (No.&fib/fld): &c/8 - 4 10∞	40.5	AL ATR CLEARANCE POX
SAMPI'YG	Lab ID	Microscope Number: 1 F 02 U	No.&fib/fild):_{	ned:	CA CLEA
D. <b>ASBESTOS AIR</b> PCM: NIOSH 7400 I	ect#:98300-0	oscope Num	Slide Data (I	Phase Rings Aligned:	_
EFI Global, Inc. <b>ASBEST</b> C PCM: NIOSF	Proj	Micr	Ref.	Pha	DMC- East Wing 1st Ploor FIN
EFI Glo		4	90		SHIM FE
	of foot	Client Address: מיזיילעם יויים	8-6-18	Collected By: Kenyla Cerros	MC Ea
bal <sup>©</sup>	Client Name: Rox Pook	idress: Q	Collection Date:	d By:	Project Location:
EFI Global	Client No	Client Ac	Collectio	Collecte	Project L

Sample #	Location	Sample Pump Pump Type On Off	Pump On	Pump Off	Time Mins	Roton	neter Fic (LPM)	Rotometer Flow Rate (LPM)	Volume (Liters)	Log	Actual Count	Adjusted Count *	Result *	Analyst
	Worker Name / SSN / Task	(1-10) hh:mm hh:mm	hh:mm	hh:mm	X	ő	₽O	Ave [B]	# ¥ © ₽	(2.7 / C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
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١	Field Blank				8	DAY TO	1 61 61	Do Not Witte in This Area			J	lot rite	ot rite	Î
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145	west side Hallway west - centur Hallow	7	33.7	328	SS	15.	15.2	15.2	85 152 15.2 15.2 1,292 000\$ 3/100	300.0	3//00		0.00	
1SF	West Side Hellum, Soft Ess	~	8	1359	ر اد	5,6	ر ائ	13.6	).lke,1	8	59 86 15.4 15.4 1.341.6 0.002 2.5/12	ı	100.07	
12	East State Hallway	٦	ると	T8 101		<u>ب</u>	ي رک	15.6	1.387.2	700-97	15.6 15.6 1,357.2 10.002 1.3/00	A	1000)	
175	East Side Hallway	7	35 101	10	9	75	2.5	15.2	2.7%	7000	152 (5.2 15.2 1,30.2 0002 1/100	(	109.07	
181	East side Hallumy	7	30 30	28	3	15.2	18.5	7:51	100 BC 15.2 15.2 13872 0.002 3/100	200.0	3//00	l	100.7	_
35	Duplicate Analysis										7/12			3
	QA/QC Calculation	Abs Value [Sqr Root x.225	e [Sqr R		density)	- Sqr R	oot (dup	density)]	<= 2.77 × (/	Avg of the	(first density) - Sqr Root (dup density)]<= $2.77 \times (\text{Avg of the sq Root of the two counts})$	e two counts	PasyFail	2

If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule "If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.

For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100mm the concentration calculation is ((fib/flds)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background 2) Pre-Abatement/Prep	3) Asbestos Removal 4) Final Cleaning	5) Glove Bag Evolutions 7) Final Air Clearance	6) Personal Air Sample 8) Waste Load-Out	9) Other Associated Work 10) Blank	~
Comments:	<b>J</b>					
Analyzed By:	LL	Date:	)ate: 8-6-18			*** 
Relinquished By:	 	Date:		Received By:	Date:	1



# **Certificate of Completion**

Project Name: Quincy Medical Center
Project Location: 114 Whitwell Street, Quincy, INA
Containment: Fast Wing 1st Floor
EFI Project No.: 98350 - 06932
Contractor's Certification of Project Completion
Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.
Signature: Ulffor for Date: 8-6-1%
Print Name: WILSON SOTO
Print Title: Super Vi3 av
Contractor Name: Omni Environmentel
,
EFI Field Technician Certification
The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.
Signature:
Signature: Date: 8-6-18  Print Name: Kay/a Carne



### **CERTIFICATE OF VISUAL INSPECTION**

Project Name: Quincy Medd cal Center
Project Name: Quincy Medd cal Center  Project Location: 114 Whit well street, Quincy, 141
Containment: East wing 1st floor
Material & Quantity Removed: 11, 100 SF Floor hile + Black mashe
Contractor's Certification of Visual Inspection Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks) Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.  Signature:  Date:  Supervisor  Print Title:  Supervisor  Contractor Name:  Omni Engrange to
EFI Field Technician Certification
The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.
Signature: Date: Date:
Print Name: 1/29/9 Carnes



### **Certificate of Final Air Clearance**

Project Name:	Quincy	Medical	Center
Project Location:	114 W	hif Well	Street, annay, 144
Containment:	8-87 W.	ng 15t	Floor
EFI Project No.:_	98350-	06932	
EFI Certification of	of Final Air Cle	arance	
			AL AIR CLEARANCE HAS BEEN ACHIVED FOR N AIR SAMPLE CONCENTRATION OF:
0.00	01		Fibers per Cubic Centimeter (f/cc) Using Phased Contrast Microscopy
< Lo			o amig a massa o amassama accepy
N/,	4		Structures per Millimeter Squared (f/cc) Using Transmission Electron Microscopy
Signature:	B/C	G Carn	Date: 8-6-19

Pass HSE-NPL Test Slide&Date: フoso 유ሪ・/g 1001 Graticule Field Area (mm²): 0000785 Page\_ 2017 2 Doc 2017 Analyzed By: \_ EFI Global, Inc. ASBESTOS AIR SAMPI "G LOG (Version 3.9 Revised 6/06/13) Microscope Cleaned: sion #3, Dated 8/15/1994) 00/16 THEL 500 Project #: 9838-0652 Lab ID: Microscope Number: 1602 " Ref. Slide Data (No.&fib/fld): PCM: NIOSH 7400 Method (I Phase Rings Aligned: Biler Howse 15t floor FEG WINE avincy, MA 8-1-18 Fox Rock P-7-19 Project Location: AW-Collection Date: Client Address: EFI Global Collected By: Client Name: Engineering Pare, Entriorangulal Sections

Sample #	Location or	Sample Type		Pump Pump On Off	Time (Mins)	Roton	neter Flo (LPM)	Rotometer Flow Rate (LPM)	Volume (Libers)	POOL	Actual Count	Adjusted Count *	Result *	Analyst ID
	Worker Name / SSN / Task	(1-10)	hh:mm hh:mm	hh:mm	₹	o	Off.	Ave [B]	A*B=	(2.71C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
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03	Bast Ling 1st A	~	hCZ	IOIA	Fol	t	ر. م	8-5	8.5 8.5 49.5 6.002 8.5/100	700.07	8-5/100	١	Σω.0	=
bo	Boiler House	_	75.4	OPA	167	500	8.5	8.2	1419.5	20.07	Co/5-L 2007	ı	58.0	
50	East wing 1st A.	_	0114	861 6901 1810		8 s	8.2	رک اب	(5/3)	100.0	0.001 7.3/60	l	₹00.0	_
90	Botler House		10184	115	1	ەر ك	4.00	من ک	1504.5 0.001 10/100	100.0	10/100	i	0.603	
				Fi I										
9,0	Duplicate Analysis										10 (00			KC
	QA/QC Calculation	Abs Val x.225	lue [Sqr	oot (firs	density	- Sqr R	oot (dup	density)]	<= 2.77 × (4	vg of the s	Abs Value [Sqr Root (first density) - Sqr Root (dup density)]<= $2.77 \times (^4 \text{ vg}$ of the sq Root of the two counts) $\times .225$	e two counts	Pass/Fail	V

\*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.

If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is //fih/fide\\*385\/\/\oldown = \* 7 85\

er than mentioned	pe			(co.,	than mentioned
ork Phase:	1) Area Background 2) Pre-Abatement/Prep	3) Asbestos Removal 4) Final Cleaning	5) Glove Bag Evolutions 7) Final Air Clearance	6) Personal Air Sample 8) Waste Load-Out	9) Other Associated Work 10) Blank
omments:	L				
nalyzed By:	115/101	Date: 8	8.7.8		

Date:

Received By:

Date:

Relinquished By:

Analyzed By:

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Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA

EFI Global, Inc. **ASBESTOS AIR SAI...** LING LOG (Version 3.9 Revised 6/06/13) PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

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Project No.:98350-06932

Analyst Initials B 80 \*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)
For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables other than mentioned Do Not Writ 1-00-18-Result \* 20000 (F/CC) \$ 00 .0 Pags/Fail 6-603 5878 Other Associated Work
 Blank Adjusted Count \* Do Abs Value [Sqr Root (first ensity) - Sqr Root (dup density)]<= 2, 7 x (Avg of the sq Root of the two counts) x.225 (F/Flds) Not Writ 1 Graticule Field Area (mm²): Phase Rings Aligned: V Analyzed By: Kayla Carnes 12.5/100 8.5/100 8/100 (F/Flds) Actual Count 0/100 7.5/100 800 3/100 Collection Date: 4.1 H19.5 60.002 1419.5 Ko.002 6) Personal Air Sample 8) Waste Load-Out (2.7 / C) 007 (00.0 100. Thes Volume A\*B (Littors) 1513 Ave [B] 8 io T Rotometer Flow Rate  $\propto$ (Number / Pass/Fail) Do Not Write in This Area *∞* کنگ 8.6 ŧ 5.7 5) Glove Bag Evolutions 7) Final Air Clearance ا ال 050 مر خ ်  $\frac{\infty}{4}$ S Collected By: Kayla Carnes Microscope Cleaned: Ø/ N (Mins) Time کر ا ₹ 10324 167 734 1501 167 E HSE-NPL Test Slide: Pump O# hh:mm 1032 1250 3) Asbestos Removal 4) Final Cleaning Pump hh:mm 1291 35 5 Sample (1-10) 及 (Number / fibers per field / Pass/Fail) Worker Name / SSN / Task 1) Area Background 2) Pre-Abatement/Prep  $\mathcal{Z}$ I Location East wing 1st Boiler House **Duplicate Analysis** 0//0 <u>x</u> QA/QC Calculation BOTH TIESE 15 45 AS Microscope No: 16211 Ref. Slide Data: 8218 Client Name: Fox Rock Blank Blank Work Phase: Sample # ショ ر 0 ષ્ટ્ર 8 83 2 5

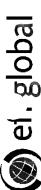
Date:

Received By:

Date: 8-8'6

Analyst Signature:\_ Relinquished By:

Comments:



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28200.0 Graticule Field Area (mm²): Phase Rings Aligned: W/N Analyzed By: Kayla Carnes Project No.:98350-06932 EFI Global, Inc. ASBESTOS AIR SAL. LING LOG (Version 3.9 Revised 6/06/13) Collection Date: PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994) (Number / Pass/Fail) 050 Collected By: Kayla Carnes Microscope Cleaned: 
⊗/ N Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA HSE-NPL Test Slide: (Number / fibers per field / Pass/Fail) 3 8123 Client Name: Fox Rock Microscope No: Ref. Slide Data:\_

Worker Name / SSN / Task (1-10)  Blank  S Est Lm, 1st $f_l$   1  S Ess Love 1   1   1   1  S Ess Love 1   1   1   1   1  S Ess Love 1   1   1   1   1   1   1   1   1   1	11	ı	5	Suil		(LPM)	(MdT)	(Liters)	roo	Count	Count *	Result *	Д Б
Blank  Ecst Lm  Boiler Hozz  Rosller Hozz	(1-10)	hh:mm	hh:mm	₹	ទី	₽	Ave [B]	A*B	(2.7 / C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
Ecst Lm. Boiler Hoss  Rosler Hoss				1	AND A SAME	NAME OF THE PARTY.	1			0/00	12X	57.0	র
Ecst Lm. Boiler Hoss Rosler Hoss	j	ĺ		200	OIL WATER	DO NOT WITH IT THE AFORT	Moa	Į,		00/100	Oo Kot /HI	Do lot //ill e	Ž
Easter House		7444	103(4	(5)	مل ک	167 R.S 8.5 BX	88	1419.5	1419.5 6.002	2/100	ı	2000	77)
Eas Lange	-	755	10429	(9) 67	8.5 8.J	8. ر	\$.\$	14.19.5	8.5 14.19.5 60.02	8/100	(	0.003	3
	-	163 hr	8L) 5E	86)	8.5	8-3	8.3	8.5 1513 6.00		001/2	,	200.0	KC
	)	1 160	135	רו	B. 1	ર્જ	ە. م	1504.5		7-5/100	١	2,00.€	3
03 Duplicate Analysis										7.5/100			IRC
QA/QC Calculation Abs Val	vbs Value	Sqr Ro	ot (first de	ensity) - S	qr Root	gub dens	ity)]<= 2.	⊤ × (Avg	of the sq F	Abs Value [Sqr Rort (first density) - Sqr Root (dup density)]<= $2.77 \times (\text{Avg of the sq Root of the two counts}) \times .225$	vo counts)	Ras/Fail	羽

other than mentioned \*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If ordinal analysis and OC analysis are less than or equal to the analytical limit of detertion of 5 Fibers/100 Fields than a Filad OC result is acceptable. (Deserve Handes) for a fibers fields (or a fibers fields) for a fibers fields (or a fibers) for a fibers fi ciated Work

For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables	ila a vvaliori-beckeli G-22 with a di				
Work Phase:	<ol> <li>Area Background</li> <li>Pre-Abatement/Prep</li> </ol>	<ol> <li>Asbestos Removal</li> <li>Final Cleaning</li> </ol>	5) Glove Bag Evolutions 7) Final Air Clearance	6) Personal Air Sample 8) Waste Load-Out	9) Other Assor 10) Blank
	1				
Comments:					

Date:\_\_ Date:

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6.0078 31-01-8 Graticule Field Area (mm²): Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA — ビベイルハム (事な) ピーパー Project No.:98350-06932 EFI Global, Inc. **ASBESTOS AIR SA.** LING LOG (Version 3.9 Revised 6/06/13) PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994) Collection Date: (Number / Pass/Fail) Pass 3080 Collected By: Kay a Carnes Microscope Cleaned:Ŵ/N HSE-NPL Test Slide: SSACY (Number / fibers per field / Pass/Fail) 100 8718-3.5 15071 Client Name: Fox Rock Microscope No: Ref. Slide Data:

Sample #	Location	Sample Type	Sample Pump Type On	Pump O#	Time (Mins)	Rotom	Rotometer Flow Rate (LPM)	v Rate	Volume (Liters)	LOQ	Actual Count	Adjusted Count *	Result *	Analyst ID
	Worker Name / SSN / Task	(1-10)	hh:mm	hh:mm	Ø	Б	#5	Ave [B]	A+8=	(2.7 / C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
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63	tellivay 1st floor		0) MACIL	(016	18 18 18 18 18 18 18 18 18 18 18 18 18 1	5.00	8.5	S S	1538-5	000	8.5 8.5 B.S BSK 0.001 11/00	ſ	0.003	
hο	Hall way zned flow	2	719 ppm	119 PM 1030 M		8.5	8.5	5	538.5	8-5 8-5 R-5 1538-50-001 9 106	4 (00	(	6-00-5	
50	Roiler Hage	8	725A	- Lea	2	8,5	×.×	85	(hS)	0000	725A 10070 1757 8-5 8-5 1547 0-001 10/100	(	60009	
90	Hallway 134 Floor Cat win	-	(O(Örthu	T.S > 21 mgsex115900	125	C.	5	9.6	55	290.0	9,1 9.4 1175 60062 10.5 llas	ĵ	400.9	
3	tiallway zwa floor	S	180 A	- W.	721	5	5	<u>2</u>	÷ <u>%</u>	700-0	σ)/5.8 200-0 h.4811 h.7 1.6 (-) 721 m. 361 11 0201	i	€00.0	
ە <sub>د</sub> 0	Boilar Horan	2	102]mm	77 mg4/21/m4	12.7	5.7	6.	47	1212.5	9.7 9.7 9.7 12125 6.002 10/00	10/01	l v	400.9	-
<b>\$</b> 0	Duplicate Analysis										ee) 01			76
Pa5>	$\rho_{a}>>$ QA/QC Calculation Abs Value [Sqr Root x.225	Abs Valt x.225	Abs Value [Sqr Root   x.225		ensity) - S	iqr Root (c	lup densi	ity)]<= 2.	7 × (A-19	of the sq P	(first density) - Sqr Root   $dup\ density$ )]<= $2.77\times (A_{M}\ of\ the\ sq\ Root\ of\ the\ two\ counts$ )	o counts)	Per /Fail	120

\*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.
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For a 25mm filter and a Watton-Beckett G-22 with a diameter of 100mm the concentration calculation is ((fib/fids)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables other than mentioned

Other Associated Work
 Blank

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Date:

			The state of the s	1.60). This calculation is
Work Phase:	1) Area Background 2) Pre-Abatement/Prep	<ol> <li>Asbestos Removal</li> <li>Final Cleaning</li> </ol>	5) Glove Bag Evolutions 7) Final Air Clearance	6) Personal Air Sam 8) Waste Load-Out
Comments:	١			
Analyst Signature:	rre: Myll		Date: 8-(0-(8	
Relinquished By	X:		Date:	Received By:

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**LING LOG** (Version 3.9 Revised 6/06/13) EFI Global, Inc. ASBESTOS AIR SAL

Poof of g,

Site Name and Address: Quincy Medical Center, 114 Whitwell St. Quincy, MA - 2nd Floor TST pipe Jung. Project No.:98350-06932 - FINAL ALRC PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

53100.0 51-01-6 Phase Rings Aligned: 8/N Analyzed By: Kayla Carnes Collection Date: HSE-NPL Test Slide: 1050 Collected By: Kayla Carnes Microscope Cleaned: Ø/N Och Ref. Slide Data: 87 19 - 3-5 1 ω 15071 Client Name: Fox Rock Microscope No:

(Number / Pass/Fail)

(Number / fibers per field / Pass/Fail)

Graticule Field Area (mm2):

Sample #	Location or	Sample Type	Pump On	Pump Off	Time (Mins)	Rotom	Rotometer Flow Rate (LPM)	/ Rate	Volume (Liters)	Loa	Actual Count	Adjusted Count *	Result *	Analyst ID
	Worker Name / SSN / Task	(1-10)	hh:mm	hh:mm	₹	Б	₽	Ave [B]	= © ©	(2.7 / C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
01 Pt	Blank				Hota.	Ort University	1	News.			0 100	- 52H	. \$2n	Z
02 H	Blank				3	DOLLAR WILLIAM IN THE STATE OF					001/0	100	) (c) (d)	Ã
03 A	North side	7	100 m		73	15.6	52	٦٤	1,232	200.0	136 15.6 15.4 1,23 10.002 2.5/100	1	& 60 (	
09 P	center under chase	7	] ga01	1	B	(j.c	13.6	9.51	3/100 By 13.6 13.6 12480 0.002 3/100	3,00.0	3/100	ſ	0.00(	
P 50	South Side	7	Olopon			(3.6	15.6	اج.و	268.6	200.0	13.6 152 15.6 124.60002 1.5/100	l	76-00(	
0519	Duplicate Analysis										2//50			Z
1655	QA/QC Calculation	Abs Val x.225	e [Sqr R	oot (first d	ensity) - \$	qr Root (c	up dens	(v)]<= 2.7	7 x (Avg c	of the sq H	Abs Value [Sqr Root (first density) - Sqr Root (dup density)]<= 2.77 x (Avg of the sq Root of the two counts) x.225	vo counts)	Pags/Fail	3
*   *   *   *   *   *	#15 Additionabled October 12 Lance shows an execution or fine and the contract of the contract		l					l						

If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)

For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/filds)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables other than mentioned \*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.

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Work Phase:	1) Area Background 2) Pre-Abatement/Prep	<ol> <li>Asbestos Removal</li> <li>Final Cleaning</li> </ol>	5) Glove Bag Evolutions 7) Final Air Clearance	6) Personal Air Sample 8) Waste Load-Out	9) Other / 10) Blank
Comments:	1				
Analyst Signature:	ture:		Date: 8-10-18	90	

0 Date: Date

Relinquished By:

Received By: O

Date:

ner Associated Work



## **Certificate of Completion**

Project Name: QMC - East wing and Flour
Project Location: Mini (antamment - ( 30LF Pipe insulantin)
Containment: "Right-side Center - Large TSI pipes & Elbous"
EFI Project No.: 98356-06932
Contractor's Certification of Project Completion
Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were
properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.
Signature: Date:
Print Name: Doug McKenna
Print Name: Doug Mc Kenna  Print Title: Superusa
Contractor Name:
EFI Field Technician Certification
The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.
Signature: Date: 8-10-18
Print Name: Kuyla Carner



### **CERTIFICATE OF VISUAL INSPECTION**

Project Name: WMC - East Wing and How
Project Location: East Way and Floor Pipe in Sulation + Stick Pins
Containment: 2nd floor "Right-Side Center - Large TSI pipes"+ El bows of floor
Material & Quantity Removed: 30 LF Pipe insulation + 105F Acm
Stickpins
Contractor's Certification of Visual Inspection Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks)
Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.
Signature: Date: Strid-18
Print Name: Dow Mc Icanum  Print Title: Supervisar
Print Title: SuperVisar
Contractor Name:
EFI Field Technician Certification
The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.
Signature: Date: Date:
Print Name: Kayla Carner



# **Certificate of Final Air Clearance**

Project Name: OMC-East Wing and Floor
Project Location: East Wing and Flour Acm Pipe Insulation
Containment: 2nd floor "Right Center Large TSI pipes"
EFI Project No.: 98350-06932
EFI Certification of Final Air Clearance
THIS CERTIFICATE IS TO CERTIFY THAT FINAL AIR CLEARANCE HAS BEEN ACHIVED FOR THE ABOVE CONTAINMENT WORK AREA. AN AIR SAMPLE CONCENTRATION OF:
Fibers per Cubic Centimeter (f/cc) Using Phased Contrast Microscopy
Structures per Millimeter Squared (f/cc) Using Transmission Electron Microscopy
Signature: Date: 8-10-18  Print Name: Kayla Carnes

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EFI Global, Inc. ASBESTOS AIR SA). ING LOG (Version 3.9 Revised 6/06/13)

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PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA

Phase Rings Aligned: Y/N Analyzed By: Kayla Carnes Collection Date: Collected By: Kayla Carnes Microscope Cleaned: Y / N

8-17-8

Project No.:98350-06932

Graticule Field Area (mm²): 0.00\$\$J 5 HSE-NPL Test Slide: 7050

Ref. Slide Data: 8718 -4.5/100 1225

Microscope No: FoZ 11

Client Name: Fox Rock

Analyst Initials Z 3 Z Z Z Z Z 3 3 Do Not Writ e 300.0 Result \* 200.9 500 g 6.002 100.0 (F/CC) 6.002 Adjusted Count \* Do Not Writ (F/Flds) Abs Value [Sqr Root (first density) - Sqr Root (dup density)]<=  $2.77 \times (Avg$  of the sq Root of the two counts)  $\times .225$ I ١ 1 ) C-5/100 0.00/ 85/100 0/100 WHAM WIRM 168 B.S R.S R.S 1428 0.001 S.S/100 613Hm 101rm 168 8.5 8.5 8.5 1428 0-001 1-5/100 G-5 8-5 8-5 1419-5 0-001 8-5/100 18/100 Actual Count (F/Flds) 00/9 2/600 <u>6</u>.8 <u>\$</u> (2.7 / C) roo Volume (Liters) A \* B = 115 PM 1021 PM 184 BS BS B.S BS 708 10H 180 8. T 8. 5 8.5 1581 185 | 5-8 | 5-8 | 8-5 | 8-5 | 8-5 Ave [B] Rotometer Flow Rate (Number / Pass/Fail) Do Not Write in This Area ₽ ဝ် Time (Mins) ₹ 1021mm 108 m 167 Sample Pump Pump Type On Off hh:mm hh:mm (1-10) (Number / fibers per field / Pass/Fail) Recen to & c building Worker Name / SSN / Task BETWEEN EW & & DUIDING Hall Way 1st Flow 1st flow Halluay 1st floor Location Hallway 15t Flock "In tor Seeken" Boiler House **Duplicate Analysis** " Interection" BoileHore Hallbay Blank Blank Sample # <u>و</u> 63 8 ر) 0 *و* 0 5 Ş 6 م م

N/ r than mentioned \*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise

QA/QC Calculation

263

Pass/Fail

it onginal analysis a	if original analysis and QC analysis are less than or equal to the ar	qual to the analytical limit of detec	s analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)	ed QC result is acceptable. (Density : le * 7.85). This calculation MUST be a	= (fibers/fields)/graticule area)
For a 25mm filter ar	For a 25mm filter and a Walton-Beckett G-22 with a diameter of 10	liameter of 100um the concentration	f 100um the concentration calculation is ((fib/fids)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than me		adjusted for variables other than me
Work Phase:	1) Area Background 2) Pre-Abatement/Prep	<ul><li>3) Asbestos Removal</li><li>4) Final Cleaning</li></ul>	5) Glove Bag Evolutions 7) Final Air Clearance	6) Personal Air Sample 8) Waste Load-Out	9) Other Associated Work 10) Blank

Comments:

Analyst Signature:\_ Relinquished By:

Date:

8-13-18

Date:

Received By:

Date:

Pass HSE-NPL Test Slide&Date: 7º ブゥ タッゲパ Analyst If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables Initials \*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless 2 E ₽ 0.00785 Graps Ras∕Fail 700.0 200,0 ₹00.0 2000 6-003 200-0 Dó Result \* (F/CC) Other Associated Work
 Blank Not Write Abs Value [Sqr Root (first density) - Sqr Root (dup density)]<= 2.77 x (Avg of the sq Root of the two counts) | x.225 Graticule Field Area (mm²): Adjusted Count \* (F/Flds) Dα Sec Not ( ( 1 ( Write (6.5/100) (1.5/m) 17.5/10c 10/100 100 ور(مه در(مه 0/100 Actual Count 3 (F/Flds) 00/ Analyzed By: EFI Global, Inc. ASBESTOS AIR SAMPI 'NG LOG (Version 3.9 Revised 6/06/13) 1.1 100 Microscope Cleaned: 6) Personal Air Sample8) Waste Load-Out ⟨0.00⟩ (2.7 / C) (0.00) 14195 0000 g हैं हें 6.5 159.5 6-001 1538.0 0.00 ision #3, Dated 8/15/1994) A\*B= Volume (Liters) 1530 크 7/100 Do Not Write In This Area -ر مک Rotometer Flow Rate Ave [B] かみ ر مل سوبا مک مرير Ref. Slide Data (No.&fib/fld); 7-3(-18 مخرکم 531 5) Glove Bag Evolutions7) Final Air Clearance ٠٠ 8.1 سر رئ بر جه 100 ₩0 Project #: \_06932 Lab ID: Phase Rings Aligned:\_\_\_\_\_\_ ۱۰ مل **∨** 8 30 88 5 >:5| 297] [mea | PCM: NIOSH 7400 Method ( Microscope Number: Sample Pump Pump Time (Mins) 1018 66 ₹ 191 L10 <u>~</u> 181 - 111-3101 hh:mm hh:mm JUN 117. 100 PM Ö Asbestos Removal
 Final Cleaning ဝ် ઝ (1-10) 15+ Worker Name / SSN / Task (3+ Floor Kallvay (st Flow 1st floor 1) Area Background
2) Pre-Abatement/Prep Stry Malline 12 to 1 OMC FOST C Wide Pallum extens com QA/QC Calculation Boile Hose. **Duplicate Analysis** Boile Hove Location *leey la Carries* Fox Rock 8-47 Borney Field Blank Kitoren than hay Hall vay Colda Hallway Blank Project Location: instructed otherwise. Collection Date: Client Address: EFI Global Collected By: Client Name: Comments: Engmeeting Par Environmental Sevino Work Phase: Sample # g 8 B ₹ S 6 E 20 6 5

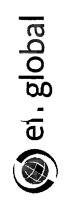
Received By:

8-14-18

Relinquished By:

Analyzed By: <

Date:



EFI Global, Inc. ASBESTOS AIR SA. LING LOG (Version 3.9 Revised 6/06/13) PCM: NIOSH 7400 Method (Revision #3 Dated 8/15/1994)

	TOW: INCOM 7400 WELLON (DEVISION #3, Dated 8/15/1994)	194)
Site Name and Address: Quincy Medical Center, 114	Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA – દુંદ્રા ພຳກີຊຸ Hallພຜາ ໃດໃໝ່ Project No.:98350-06932	Project No.:98350-06932
Client Name: Fox Rock	Collected By: Kayla Carnes	Collection Date: 2 - 15 - 18
Microscope No: 10211	Microscope Cleaned: Y/N Phase Rings Aligned: Y/N Analyzed By: Kayla Carnes	Analyzed By: Kaya Carnes
Ref. Slide Data: 7251% 7 100 p.55	HSE-NPL Test Slide: 7650 0455	Graticule Field Area (mm²): 6.007
(Number / fibers per field / Pass/Fail)		

Sample #	Location Or	Sample Type	Pump On	Pump Off	Time (Mins)	Rotom	Rotometer Flow Rate (LPM)		Volume (Liters)	roo	Actual Count	Adjusted Count *	Result *	Analyst ID
	Worker Name / SSN / Task	(1-10)	hh:mm	hh:mm	3	Б	ŧ	Ave [B]	⊪ ⊈B ⊈	(2.7 / C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
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0 S D	In Containment	1	1986	Szan	32	2	15.0	15.6	17/17	₹00.0	02. 15.6 15.6 154 1292 0002 208/100	(	100.07	
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N.C	Duplicate Analysis										20117			8
	QA/QC Calculation	Abs Valt x.225	ue [Sqr Rt	oot (first d	ensity) - 9	ar Root (c	dup dens	)]<= 2.	× (Avg	of the sq F	Abs Value [Sqr Root (first density) - Sqr Root (dup density)]<= $2.77 \times (\text{Avg of the sq Root of the two counts})$ x.225	o counts)	Pafsy/Fail	4

\*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100mm the concentration calculation is ((fib/filds)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables other than mentioned Personal Air Sample Work Phase

ייסטור רוסטרי	i) Alea Dackground	3) Aspestos Hemoval	<ul> <li>b) Glove Bag Evolutions</li> </ul>	©
	<ol><li>Pre-Abatement/Prep</li></ol>	4) Final Cleaning	7) Final Air Clearance	8
Comments:				
	M		0, 0, 0	
Analyst Signature	Analyst Signature:		Date: 0 7 - 65	
Relinanished Bv.	J		Date: 15-16-16	Œ

Received By:

Date:

9) Other Associated Work10) Blank

Waste Load-Out

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EFI Global, Inc. ASBESTOS AIR SAI. LING LOG (Version 3.9 Revised 6/06/13)

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Analyst Initials K Z 58200 Do Not Will 700.07 6.00.0 Result \* ₹20.0 200,0 (F/CC) 0.003 800.0 Ò 00 Adjusted Count \* Dø (F/Flds) とてな Not Will ( ( ( 1 ١ 1 Analyzed By: Kaya Carnes Graticule Field Area (mm²): Project No.:98350-06932 8.5/100 9.5/18 001/2 65/00 0/100 (F/Flds) 0/100 0114108-17) 18.5 18.5 150450001 9.5/10 Actual Count 8-5 8.5 1cm 0.001 1/100 Collection Date: (2.7 / C) 6589 1010 192 8-5 8-5 1632 6-001 8-5 8-5 632 000 9 8-5 8-5 8-5 1513 0001 000 A\*B= Volume (Liters) 8.511513 Phase Rings Aligned: Y / N Ø Site Name and Address: Quincy Medical Center, 114 Whitwell St. Quincy, MA - Eastwing (St Floor 16H) Ave [B] Rotometer Flow Rate (Number / Pass/Fail) Do Not Write in This Area ب خه PaSS C PM ₽ ф Ж Š ₩ ₩ 7650 ် Collected By: Kawa Carnes Microscope Cleaned: Y / N SC1 180 HO10 251 AUGU 455 Time Mins) 150 [78 ₹ 191 AT101 HSE-NPL Test Slide: Pump Off hh:mm N L 400 Pump On hh:mm Sample (1-10) ype  $\sim$ 3  $\sim$  $\sim$ 3 (Number / fibers per field / Pass/Fail) Pass Worker Name / SSN / Task Boiler House This rut 7/100 オな Hallem Location Borler House エた Kitchen Entra Hallway (st A Microscope No: 1 F () A / I 72518 Hall way Hallwin Halleban CBIG Client Name: Fox Rock Blank Blank Ref. Slide Data: Sample #  $\mathscr{S}$ 20 2 ર્જૂ 임 80 5 S

nentioned \*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)

Abs Value [Sqr Root (first density) - Sqr Root (dup density)]<= 2.77 x (Avg of the sq Root of the two counts)

QA/QC Calculation **Duplicate Analysis** 

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Pass/Fail

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Work Phase: 1) Area Background 3) Asbestos Removal 5) Glove Bag Evolutions 6) Personal Air Sample 9) Other Associated Wo 2) Pre-Abatement/Prep 4) Final Cleaning 7) Final Air Clearance 8) Waste Load-Out 10) Blank Comments:	5		מייים אייים	or a committee of the carculation of the carculation carculation (high has) 300/(Volume 1:00). This carculation by adjusted for Variables Office from	IE 1.00). Tills calculation miost be	adjusted for variables onlier man i
	Work Phase:	1) Area Background 2) Pre-Abatement/Prep	<ul><li>3) Asbestos Removal</li><li>4) Final Cleaning</li></ul>	5) Glove Bag Evolutions 7) Final Air Clearance	6) Personal Air Sample 8) Waste Load-Out	9) Other Associated Worl 10) Blank
CIM	Commonte	(				
		1000				
	Analyst Signat	ure:		ツイソノーナ date		

Date:

Received By:

Date:

Relinquished By:



# **Certificate of Completion**

Project Name: Wuncy Medical Center
Project Location: 114 Whatwell Sto, Quincy, MA
Containment: East Wing 1st floor - Hallway connector Ramp  EFI Project No.: 98350-06932
EFI Project No.: 98350 -06932
Combractoria Contification of Business Committee
Contractor's Certification of Project Completion
Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.
Signature:
Print Name:
Print Title: Superui Sur
Contractor Name: Omni Emvonmental
EFI Field Technician Certification
The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.
Signature: Date:
Print Name: Kayla Cames



### **CERTIFICATE OF VISUAL INSPECTION**

Project Name: Quincy Medical Center
Project Location: 114 Whit well St. Quincy, MA
Containment: East wing 1st floor - Hallway Connector Ramp
Material & Quantity Removed:
Contractor's Certification of Visual Inspection
Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks)
Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in
general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.
Signature: <u>Uffer fus</u> Date: <u>8-15-18</u>
Print Name: ////SOW SOTO
Print Title: Superuisor
Contractor Name: Omni Environmental
EFI Field Technician Certification
The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.
Signature: Date: $8-518$
Print Name: Kayla Carnes



## **Certificate of Final Air Clearance**

Project Name: Quincy Medical Cen-	ter
Project Location: 114 Whitwell St.	Quincy, MA
Containment: East Wing 1st floor -	Hallway Connector Ramp
EFI Project No.: 98350-06932	•
EFI Certification of Final Air Clearance	
THIS CERTIFICATE IS TO CERTIFY THAT FINAL. THE ABOVE CONTAINMENT WORK AREA. AN A	
0.001 <100	Fibers per Cubic Centimeter (f/cc) Using Phased Contrast Microscopy
NA	_ Structures per Millimeter Squared (f/cc) Using Transmission Electron Microscopy
Signature:   Can la Cun e	Date: <u>8-1578</u>

EFI Global		EFI Global, Inc. ASBESTOS AIR SAMPI ***G LOG (Version 3.9 Revised 6/06/13) PCM: NIOSH 7400 Method (I sion #3. Dated 8/15/1994)	ASBE CM: NI	c. ASBESTOS AIR SAMPI PCM: NIOSH 7400 Method (I	AIR SA	· IdW	G LOC	(Version Dated 8	<b>G LOG</b> (Version 3.9 Resion #3. Dated 8/15/1994)	evised 6/(	06/13)		Page_	
Client Name:	Fox Rock		Projec	Project #.000.0000	any	_ Lab ID:	ä		Microsco	Microscope Cleaned:	ed:			
Client Address:			Micro	Microscope Number:	umber:		2470	2-2	:	Pass F	N P	Test Slide&Date:	Date: P	
Collection Date:	te:		Ref. S	Ref. Slide Data (No.&fib/fld):	a (No.8	fib/fld):		181	007)	Gratic	ile Field Ai	Graticule Field Area (mm²):	284.001	ď
Project Location:	ion:	S CO	Priase Kir	Sings	Kings Aligned:	Can	On the	V.	0	Analyz ^ C V	Analyzed By:	5 104	1 1 2 h 5	
Sample #	Location	Sample	Pump	Pump	Mins	Roton	Rotometer Flow Rate	w Rate	Volume	g	Actual	Adjusted Count *	Result *	Analyst
	Worker Name / SSN / Task	(1-10)	hh:mm	hh:mm	₹	5	* ₹	Ave [B]	# 5 4 8 8 8 9 9	(2.7 / C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
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*If Adjusted Count instructed otherwise. If original analysis ar area)	*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)	bers/100 Fie or equal to th	lds, ther e analyti	report R	report Result as	s < 20Q.	Sampl ibers/10	es will be 0 Fields, t	maintaine hen a Faile	ed under th	e COC Prot It is accepta	tocol for 30 c ble. (Density	Samples will be maintained under the COC Protocol for 30 days after receipt, unless ers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule	pt, unless //graticule
For a 25mm filter and other than mentioned	For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned	h a diameter	of 100u	n the co	centration	on calcul	ation is	((fib/fids)*	385)/(Volu	me * 7.85).	This calcul	ation MUST	be adjusted for	variables
Work Phase:	1) Area Background 2) Pre-Abatement/Prep	3) Asbestos Remova 4) Final Cleaning	Remova		5) Glove Bag Evolutions 7) Final Air Clearance	Glove Bag Evolution Final Air Clearance	lutions ance	(G) (G)	Personal Waste Lo	6) Personal Air Sample 8) Waste Load-Out		9) Other Associated Work 10) Blank	ated Work	
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Analyst Initials 0026 D S S a 0,00c Result\* (F/CC) Pass/Fail Adjusted Count \* Do Not Write (F/Flds) Abs Value [Sqr Root (first density) - Sqr Root (dup den ity)]<= 2.77 x (Avg of the sq Root of the two counts) x.225 Graticule Field Area (mm²): \_ Project No.: 020, Actual Count (F/Flds) Collection Date: Phase Rings Aligned(Y/N Analyzed By:\_ (2.7 / C) Log Volume (Litera) A 5 Ave [B] 2 Rotometer Flow Rate (Number / Pass/Fail) Do Not Write In This Area 6 ₽ 707 / 11 00 1032 128 ι (2) ဝ် Microscope Cleaned: ( N/N 13/11/64 Time Mins 丞 HSE-NPL Test Slide: Pump O# hh:mm hh:mm \*CHACT LOWING CEMENT Collected By: Pump On B Sample (1-10) 00 (Number / fibers per field / Pass/Fail) Worker Name / SSN / Task Location QA/QC Calculation **Duplicate Analysis** Blank Blank Microscope No: Client Name: \_\_\_ Ref. Slide Data: Sample # 10 3 d 2 8 Ō

sted for variables other than mentioned \*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise If original analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields than a Failed OC requit is proposed. The standard analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields than a Failed OC requit is proposed. (fibers/fields)/graticule area)

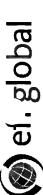
For a 25mm filter and	a Walton-Beckett G-22 with a	diameter of 100um the concentration	n calculation is ((fib/fids)*385)/(Volum	For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is (flipflids)*385)/(Volume * 7.85). This calculation MUST be adju
Work Phase:	1) Area Background 2) Pre-Abatement/Prep	3) Asbestos Removal 4) Final Cleaning	5) Glove Bag Evolutions 7) Final Air Clearance	6) Personal Air Sample 8) Waste Load-Out
Comments:	0 1	1. 1		
Analyst Signature:	.e.		Date:	Total and the second of the se
Belinguished By		· / / /		

9) Other Associated Work 10) Blank

Date:

Received By:

Relinquished By: \_



EFI Global, Inc. ASBESTOS AIR SAIL. LING LOG (Version 3.9 Revised 6/06/13)

Pa<sub>b</sub> ) 1 of /

Project No.: 98350-06932 PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994) Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA

Phase Rings Aligned: Y/N Analyzed By: Kayla Garges Collection Date: Johnson (Number / Pass Pail) Collected By: Kayla Carres Microscope Cleaned: Y / N HSE-NPL Test Slide: (Number / fibers per field / Paes/Fail) Client Name: Fox Rock Ref. Slide Data: Microscope No:

Analyst Initials ₽ 000. 70000 Do Not Writ Result \* (F/CC) Pass/Fail a Adjusted Count \* Do (F/Flds) Abs Value [Sqr Root (first density) - Sqr Root (dup density)]<= 2.77 x (Avg of the sq Root of the two counts) Not Writ حر (F/Flds) Actual Count (2.7 / C) 10-10-1710 DAGE 9 Volume (Liters) 75 A \* B = 8 Ö Ave [B] Rotometer Flow Rate 5 DO NOT WITH IT THE AREA 9 ₽ 6 ဝ် Time Mins 15 ⊴ 7560 Pump hh:mm 500 205 9 Pump 300 hh:mm 200 ő Sample (1-10)Mindell Remain A/ED Worker Name / SSN / Task Winds A Salaud Location **Duplicate Analysis** QA/QC Calculation Blank Blank 7 ر ک Sample # 6 02 5 0

For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables other than mentioned \*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOO. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)

, T	Date: \$/21/18	Date:
	my thank	
Comments:	Analyst Signature: $ otag$	Relinquished By:

Received By:

Date:

Other Associated Work
 Blank

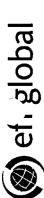
6) Personal Air Sample 8) Waste Load-Out

5) Glove Bag Evolutions 7) Final Air Clearance

Asbestos Removal
 Final Cleaning

Area Background
 Pre-Abatement/Prep

Work Phase:



**ING LOG** (Version 3.9 Revised 6/06/13) EFI Global, Inc. ASBESTOS AIR SAIN.

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA

Project No.:98350-06932

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Collection Date: Colon -ML Collected By: Kayla Garmes

Microscope Cleaned: Y / N

Phase Rings Aligned: Y/N Analyzed By: Kayla Garnes

Uscar

Graticule Field Area (mm²): (Number / Pass/Fail)

HSE-NPL Test Slide:

(Number / fibers per field / Rass/Eail,

Microscope No: 1892, 892

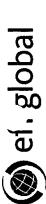
Ref. Slide Data:

Client Name: Fox Rock

Analyst Initials Do Not Writ 200 204 Result \* 583 (F/CC) Pass/Fail Adjusted Do Count \* Abs Value [Sqr Root (first density) - Sqr Root (dup dens ty)]<= 2.77 x (Avg at the sq Root of the two counts) (F/Flds) Not Writ (F/Flds) Actual Count 8 N 8 3000 (2.7 / C) cos 187 L00 Volume (Liters) 35 [33 1387 A\*B= 1/38/ 0 Ave [B] Rotometer Flow Rate Do Not Write in This Area 5 ,5 8 52 02/ 4 б Time Mins ₹ 32 Pump 1140 hh:mm B 9 Ca Pump hh:mm 23 ő Sample (1-10)ype x.225 who servenous and Window Demountain Worker Name / SSN / Task Outs, 60 (30, (a) Culsida BoiRr Location QA/QC Calculation **Duplicate Analysis** Blank Blank Sample # 1 엉 5 2

For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100mm the concentration calculation is ((fib/flds)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables other than mentioned \*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. Other Associated Work
 Blank If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) 6) Personal Air Sample8) Waste Load-Out 5) Glove Bag Evolutions 7) Final Air Clearance 3) Asbestos Removal 4) Final Cleaning 1) Area Background 2) Pre-Abatement/Prep Work Phase:

Date:



EFI Global, Inc. ASBESTOS AIR SAI. ING LOG (Version 3.9 Revised 6/06/13)

Pa、 (of /

alo, acesdo

Project No.:98359-06939

Collection Date:

in holer

Collected By: Kaylar Lance

Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA

Microscope Cleaned: 2011

HSE-NPL Test Slide:

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Analyst

Result \*

Adjusted Count \* (F/Flds)

Actual Count (F/Flds)

9

Volume (Liters) A\*B=

Rotometer Flow Rate (Number / Pass/Fail)

> Time Mins

Pump Off

Pump

Sample

Number / fibers per field / Pass Fail)

Microscope No: 4618924

Ref. Slide Data:

Client Name: Fox Rock

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Phase Rings Aligned: N Analyzed By: Kaviz Serees

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Graticule Field Area (mm²):

Initials

(F/CC)

(2.7 / C)

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Ave [B]

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hh:mm 5

(1-10)Type

Worker Name / SSN / Task

Sample #

Location

Do Not Writ

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9/17)

15.72 16.22 J.M.

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1st Plear Window

25

15/2 15/2 15 1 12/2

19.5 7.5-9.5 1847

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Silver room deen

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Blank Blank

8 5

lyt floor window

Do Not Write in This Area

Abs Value [Sqr Root (first ensity) - Sqr Root (dup density)]<= 2.77 x (Avg of the sq Root of the two counts) E. 5) Glove Bag Evolutions 7) Final Air Clearance Date: Date:

> QA/QC Calculation **Duplicate Analysis**

Pass/Eail

For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables other than mentioned \*\* Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise Other Associated Work
 Blank If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) Date: 6) Personal Air Sample8) Waste Load-Out Received By: 3) Asbestos Removal 4) Final Cleaning x.225 Area Background
 Pre-Abatement/Prep 2 de Analyst Signature:\_\_ Relinquished By: Work Phase: Comments:



#### **CERTIFICATE OF VISUAL INSPECTION**

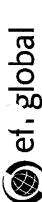
620,00026

Site Name: Quincy Medical Center	Project Number: 23350 2532
Site Address: 114 Whitwell St. Quincy, MA	
Work Area: 1st floor wonder are Material & Quantity Removed: Wadow Caul	le reast ain
Material & Quantity Removed: Window Caul	le an windows
Contractor's Certification of Visual Inspection	
Contractor Supervisor hereby certifies that he/she has general, all surfaces including but not limited to piping, be plastic, decontamination unit, equipment, etc.) has found	eams, ledges, walls, decks, floor, sheet
Signature: ////or /s	Date: <u>\\/\27/18</u>
Print Name: MUSUN SOTO	
Print Title: MGR	
Contractor Name: Omni Environmental	
EFI Field Technician Certification	
The EFI on-site representative hereby certifies that he/she verifies that this inspection has been thorough. All surfacinspected and no dust, debris or residue remains.	•
Signature: My Maries Nihales McCo	Date: 5/23/18
Print Name: Kayla- Milales McC	lure



#### **CERTIFICATE OF FINAL AIR CLEARANCE**

	020,00006
Site Name: Quincy Medical Center	Project Number: 28350 06032
Site Address: 114 Whitwell St. Quincy, MA	
Work Area: 1st floor window Oven	-last wing
Work Area: 1st floor window Oven  Material & Quantity Removed: window Caull  Wax ft2	( ant windows
EFI Certification of Final Air Clearance	
This certificate is to certify that final air clearance has been ac area. An air sample concentration of:	hieved for the above containment work
	per Cubic Centimeter (f/cc) Phased Contrast Microscopy
	res per Millimeter Squared (f/cc) ransmission Electron Microscopy
Signature: MMMM  Print Name: Karlones Nolvakas Mc	Date: <u> </u>
Print Name: Kartanas Noluakas Mc	Chaz



EFI Global, Inc. **ASBESTOS AIR SAI.** ING LOG (Version 3.9 Revised 6/06/13)

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

020-000 0.00785 81.72-8 Phase Rings Aligned: Y / N Analyzed By: Kayla Carnes Graticule Field Area (mm<sup>2</sup>): Project No.:98359 06932 Collection Date: (Number / Pass/Fail) Pess BOL Collected By: Kayla Carnes Microscope Cleaned: Y/N Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA HSE-NPL Test Slide: (Number / fibers per field / Pass/Fail) PASS 3.5/100 Microscope No: 160211 Client Name: Fox Rock Ref. Slide Data: 8719

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<u>E</u>
The Most Without This Area
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708, 1010, 182 8.5 8.5 8.5 1547 10001 6/100
115m 1017m 182 8.5 8.5 8.5 1547 0.001 9/100
100 1130 183 8.5 8.8 8.5 155550.601 5.5/100
100 161 8.5 8.5 8.8 154) 0.001 8.2/co
o
Abs Value [Sqr Root (first Jensity) - Sqr Root (dup density)]<= 2.77 x (Avg of the sq Root of the two counts)

If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)
For a 25mm filter and a Watton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/fids)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables other than mentioned \*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise

	Work Phase:	1) Area Background 2) Pre-Abatement/Pren	3) Asbestos Removal	5) Glove Bag Evolutions 7) Final Air Clearance	6) Personal Air Sample
Commonte	Commonte				

Date:

Relinquished By:

Received By:

9) Other Associated Work 10) Blank

Date:

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Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA

**LING LOG** (Version 3.9 Revised 6/06/13) EFI Global, Inc. ASBESTOS AIR SAIL

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

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Project No.<del>:08350-06932-</del>

27.18 d

Phase Rings Aligned: Y/N Analyzed By: Kaya Carnes Collection Date: Collected By: Kaya Carnes Microscope Cleaned: Y / N Pass

(Number / Pass/Fail) Pass HSE-NPL Test Slide: 7650

20)

Forn

Microscope No: Ref. Slide Data:\_

Client Name: Fox Rock

0.007 Graticule Field Area (mm²):

	(Number / fibers per field / Pass/Fail)	/Fail)				(Numbe	(Number / Pass/Fail)	/Fail)						
Sample #	Location	Sample Type	Pump On	Pump Off	Time (Mins)	Roton	Rotometer Flow Rate (LPM)	w Rate	Volume (Liters)	LOG	Actual Count	Adjusted Count *	Result *	Analyst ID
	Worker Name / SSN / Task	(1-10)	hh:mm	hh:mm	₹	б	₽	Ave [B]	A*8=	(2.7 / C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
9	Blank				1	Ac West	HERE I	7			00110	N	- S7H	K
02	Blank			j	3	5	SO NOT WITH THE WILLIAM OF	wee.	Ì			iot /rit	DO ION WITE	3
03	East Win, 2nd flow	~	701	-bolo	50	から	8.5	4	6065	100.0	701 m. 16100. 189 8.5 8.5 8-5 16065 0.001 7.5/100		2000	
ho	Boiler House	~	710 19	020	0 <del>3</del> )	4	8.2	8.5	1615	150 8-5 8.5 1615 6.001 10/100	en/for	1	6.003	
\$	East Wing 2nd Floor	~	10(0 <sub>A+</sub>	7	Ŧ	८:४	8.2	ج. م	1649	0.00	8.5 8.5 1649 0.001 5.5/100	1	209.0	
<b>ر</b> 0	Boiler House	m	1620	189 - PZI - US9	189	8.2	8.5 B.5 8-8 16065 0.001	&. &	Solos)	100.0	9	١	0.00\$	_
20	Duplicate Analysis										9/(20			2
	QA/QC Calculation	Abs Vall	Abs Value [Sqr Root (fil x.225	oot (first de	- (Ajisue	qr Root	dup dens	)]<= 2.	x (Avg	of the sq F	rst density) - Sqr Root (Jup dens 1)]<= $2.77 \times (\text{Avg of the sq Root of the two counts})$	o counts)	Rask/Fail	9

If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)

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Mork Dhoco:	4 \ A = 0 = 0 = 0 = 0 = 0 = 0		i c
VV OF PIRESE.	i) Alea Dackground	3) Aspestos Hemoval	b) Glove Bag EV
	<ol><li>Pre-Abatement/Prep</li></ol>	4) Final Cleaning	7) Final Air Clea
	J	S	

/olutions rance

6) Personal Air Sample 8) Waste Load-Out

Other Associated Work
 Blank

Analyst Signature:\_ Comments:

Relinquished By:

Date: Date:

Received By:

Date:

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EFI Global, Inc. ASBESTOS AIR SAI. LING LOG (Version 3.9 Revised 6/06/13)

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Project No.:96350-06932 Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA - Est wmg Ind Floor

WARENS CEAST Clearance Collected By: Kayla Carnes

8.28.18 Collection Date:

020.00026

Phase Rings Aligned N Analyzed By: Kayla Carnes

Graticule Field Area (mm²): 0.00785

(Number / Pass/Fail) HSE-NPL Test Slide: (Number / fibers per field / Pass/Fail) 8778

7050 Pass

Microscope Cleaned: N

Pass

8/100

Microscope No: IFO &!!

Ref. Slide Data:

Client Name: Fox Rock

	form a form and proper formation	,	1				(m : /m : / )	,						
Sample #	Location	Sample Type	Pump On	Pump Off	Time (Mins)	Rotom	Rotometer Flow Rate (LPM)	v Rate	Volume (Liters)	LOQ	Actual Count	Adjusted Count *	Result *	Analyst ID
	Worker Name / SSN / Task	(1-10)	hh:mm	hh:mm	₹	Б	ŧ	Ave [B]	= © ©	(2.7 / C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
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æ	EGST STOR WAGOUS	7	451 620	કુ	89	15.2	18.2	13.5	352.8	200.9	15.2 15.2 15.2 155.8 6.002 3/00	ı	0.00	
E	East Side windows north wat	۲	453, 621	ક	32	38 15.2 14.8 15.0 Bad 0.002	8.41	150	००४		4.5/100	1	0.001	
25	East sidt windows	ر	بو س	154 623 87	60	15.5	8.71	15.0	38.0	6.00%	15.2 14.8 154 135.0 0:002 2.5/00	ı	10.07	
૪	East side windows Center Containment	_	문	457 625 88		7:51	15.2	1.5)	1357.6	15.2 15.2 15.2 138.6 0.002 3	3/100	i	6.00	
દ	East Side Windows South, East	٢	45 ga 637	F	Z	13:5	13.2	(5.2	352.5	2000	15.2 15.2 135.8 0.001 3.5/100	ı	0.00	
90	East Side windows Solothn wast	~	454 638		50	89 15.2 ph. 6.0 13350 0-002	90 7	15.0	3250	200-0	4/100	1	0.001	
જ	East side hometons	~	501	25	\$	15.2	14.2	15:1	\$25.\$	15.2 15.2 15.7 1828 0008 45	45/100	(	100.0	
0)	Esst side wrows	~	503	63	35	18.2	18.2	13:2	13.7.6	88 15.2 15.2 15.2 15.6 0.602 3/100	3/100	1	100.0	_
9	Duplicate Analysis										3.5/100			K
	QA/QC Calculation	Abs Val	ue [Sqr R	oot (first d	ensity) -	ar Root	dup dens	ity)]<= 2.7	7 × (Avg	of the sq F	Abs Value [Sqr Root (first the newsity) - Sqr Root (dup density)]<= 2.77 x (Avg of the sq Root of the two counts) x 225	o counts)	Pass/Fail	ð

be adjusted for variables other than mentioned \*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the CO. Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)

Work Phase:	1) Area Background 2) Pre-Abatement/Prep	<ul><li>3) Asbestos Removal</li><li>4) Final Cleaning</li></ul>	5) Glove Bag Evolutions 7) Final Air Clearance	6) Personal Air Sample 8) Waste Load-Out
Comments:	ľ			
Analyst Signature:	Three Marie		Porto: \$.28.14	

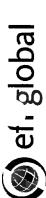
Date:

Relinquished By:

Received By:

Date:

Other Associated Work
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EFI Global, Inc. ASBESTOS AIR SAL. LING LOG (Version 3.9 Revised 6/06/13)

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

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28400.0 \$ 28.18 Phase Rings Aligned: N Analyzed By: Kayla Carnes Graticule Field Area (mm²): Project No.:98350-06932 Collection Date: Sample Pump Time Rotometer Flow Rate (Number / Pass/Fail) HSE-NPL Test Slide: Jose Collected By: Kayla Carnes Microscope Cleaned: (M/N) Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA (Number / fibers per field / Pass/Fail) PASS 4.51/00 Microscope No: 1F 1>11 Ref. Slide Data: 87% Client Name: Fox Rock

Sample #	Location	Type	Type On Off	₽ ₽	(Mins)	Hoton	Rotometer Flow Rate (LPM)		Volume (Liters)	Poo	Actual Count	Adjusted Count *	Result *	Analyst ID
	Worker Name / SSN / Task	(1-10)	hh:mm	hh:mm	₹	ర్	₽	Ave [B]	A*8=	(2.7 / C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
10	Blank					Section 1	S. C. L. C. C.	1000	A COLUMN TO		0/100	7.47		13
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											1	500		ý
03	Boiler Hore	-	708	800/	B	8-3	8.5	ص ب	536	100.9	70% 1008 180 8-5 8-5 8-5 1530 6-001 8-5/00	(	700.0	z
po	Boiler Howe	,	118	118	661	مغ	8.5	8.5	190 8.5 8.5 leis 6.001	loo.9	9.5/00	١	700.0	å
જ	Duplicate Analysis										8/10			3
	QA/QC Calculation	Abs Valu x.225	ıe [Sqr Rc	oot (first de	ensity) - S	qr Root (	dup dens	")]<= 2.7	7 × (Avg	of the sq R	Abs Value [Sqr Root (first density) - Sqr Root (dup density)] $\leq 2.77 \times (\text{Avg of the sq Root of the two counts}) \times 225$	o counts)	P@sk/Fail	¥

If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)
For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/filds)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables other than mentioned \*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.

Work Phase:	<ol> <li>Area Background</li> <li>Pre-Abatement/Prep</li> </ol>	<ol> <li>Asbestos Removal</li> <li>Final Cleaning</li> </ol>	5) Glove Bag Evolutions 7) Final Air Clearance	ω α
Comments:	ı			
Analyst Signature:	.ure: /////		Date: 8-28-15	
Relinquished By:	34:		Date:	ď

Received By:

Date:

Other Associated Work
 Blank

Personal Air Sample Waste Load-Out



#### **CERTIFICATE OF COMPLETION**

Site Name: Quincy Medical Center	Project Number: <u>020.00020</u>
Site Address: 114 Whitwell St. Quincy, MA	
Work Area: East Wing 2nd floor	East Side Windows
Material & Quantity Removed: 17 Wnd	ows-Acm Windows Caulking
Contractor's Certification of Project Complet	ion
work area in accordance with job specific compliance with all applicable federal, state	ne/she has completed asbestos abatement in the ations and that this project was completed in and local regulations. Contractor personnel were the proper documentation to perform asbestos used throughout this project.
Signature: <i>Materi fel</i>	Date: 8 · 28 · 18
Print Name: WILSON SOTO	
Print Title: MGR	
/ Contractor Name: <u>Omni Environmental</u>	
EFI Field Technician Certification	
The EFI field technician hereby certifies that he and verifies that this project has been completed	e/she has completed clearance sampling, punch list ted in a safe and professional manner.
Signature:	Date: 8.78.18
Print Name: Kayla Carnes	



#### **CERTIFICATE OF VISUAL INSPECTION**

Site Name: Quincy Medical Center	Project Number: 020.0000
Site Address: 114 Whitwell St. Quincy, MA	
Work Area: East wing and Floor East Si	ide Windows
Work Area: East wing and floor East Si Material & Quantity Removed: 17 Wyndows	- Acm browlow
	Cauking
Contractor's Certification of Visual Inspection	
Contractor Supervisor hereby certifies that he/she has general, all surfaces including but not limited to piping, be plastic, decontamination unit, equipment, etc.) has found	eams, ledges, walls, decks, floor, sheet
Signature: Ulfor falo	Date: 8 · 38 · 18
Print Name: WILSON SOTO	
Print Title: Super V; Sor	
Contractor Name: Omni Environmental	
EFI Field Technician Certification	
The EFI on-site representative hereby certifies that he/she verifies that this inspection has been thorough. All surfac inspected and no dust, debris or residue remains.	
Signature:	Dạte: <u> </u>
Print Name: Kayla Carnes	



#### **CERTIFICATE OF FINAL AIR CLEARANCE**

Site Name: Quincy Medical Center	Project Number: 020.00020
Site Address: 114 Whitwell St, Quincy, MA	
Work Area: East wing and Floor East	Side Windows
Work Area: East Wing and Floor Ecst  Material & Quantity Removed: 17 Winc	lows >> Acm Window
	Caulling
EFI Certification of Final Air Clearance	
This certificate is to certify that final air clearance has area. An air sample concentration of:	been achieved for the above containment work
0-001 < LOD	Fibers per Cubic Centimeter (f/cc) Using Phased Contrast Microscopy
NA	_ Structures per Millimeter Squared (f/cc) Using Transmission Electron Microscopy
Signature:	Date: <u> </u>
Print Name: Kayla Carnes	

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EFI Global, Inc. ASBESTOS AIR SAI. ING LOG (Version 3.9 Revised 6/06/13)

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Collected By: Kayla Carnes Microscope Cleaned: XX N

Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA

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Microscope No: \_

Client Name: Fox Rock

25000.020

Project No<del>.:98350-06932</del>

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S. 29.13 Collection Date:

Analyzed By: Kayla Carnes

Graticule Field Area (mm²): Phase Rings Aligned: 🕉/ N

ef. Slide L	Ref. Slide Data: 87 18 4 //00 Pass		SE-NPL	HSE-NPL Test Slide:		7050 1.55	125	ι.	g	raticule F	ield Area (n	nm²): Ø	Graticule Field Area (mm²): 0 -00 785	K) (
	(Number / fibers per field / Pass/Fail)					(Numbe	(Number / Pass/Fail)	/Fail)				1		
Sample #	Location	Sample	Pump On	Pump Off	Time (Mins)	Rotom	Rotometer Flow Rate	w Rate	Volume (Liters)	LOQ	Actual Count	Adjusted Count *	Result *	Analyst ID
	Worker Name / SSN / Task	(1-10)	hh:mm	hh:mm	₹	ő	₽	Ave [B]	A*B=	(2.7 / C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
10	Blank				2000	0.0000000000000000000000000000000000000	Windstall Co.	1000			0//0	× 3 m		X
82	Blank				000	Do Not Write In This Area	in ing	Aren.	2		0/00	oc fot Vrit	On Vot Vril e	Z
03	East and 3rd Readows	$\sim$	હેરવ	934 180		5.8	8.7	8	0531	0.00]	8.5 8.5 RS 1030 0.001 6/60	(	6.005	_
50	Boiler Hasse	3	639 539		(80	85	S F	8	530	0.00	(80 8.5 8.5 8.5 5000) 5/60	1	100.0	
0 K	East to my end procur	$\sim$	h٤ς	8भ2।	18/	8.0	م ۲	4	6491	0-00	18 85 8. T 8. T 1649 0.001 7/100	1	4.0.0	
و 0	Boiler Horse	$\sim$	935	1251	158	8.5	S, S	DJ.	83	1000	1257 158 8-5 8-5 By 143 0001 65/60	1	J.00-0	
63	Duplicate Analysis										6/100			X
	QA/QC Calculation	Abs Valu x.225	e [Sqr Rc	oot (first d	- (kjisue	qr Root	suap dnp	ity)]<= 2.	7 × (Avg	of the sq F	Abs Value [Sqr Root (first $\circ$ snsity) - Eqr Root (dup density)]<= 2.77 $\times$ (Avg of the sq Root of the two counts) $\times$ 225	vo counts)	P@s/Fail	3

\*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)
For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/filds)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	<ol> <li>Area Background</li> <li>Pre-Abatement/Prep</li> </ol>	3) Asbestos Removal 4) Final Cleaning	5) Glove Bag Evolutions 7) Final Air Clearance	6) Personal Air Sample

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Date:

Analyst Signature: Relinquished By:

Comments:

Received By:

Date:

Other Associated Work
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**LING LOG** (Version 3.9 Revised 6/06/13) EFI Global, Inc. ASBESTOS AIR SAIL.

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PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA - Rand Amark

020.00056 Project No.: 98350-06992 Collected By: Kaya Carnes

8.50.18

Collection Date:

Graticule Field Area (mm²): Phase Rings Aligned: N Analyzed By: Kayla Carnes

554

HSE-NPL Test Slide: 7010

Pa SS

01/h

8718

Ref. Slide Data: Microscope No:

40211

Client Name: Fox Rock

Microscope Cleaned: Ø/N

28200-0

	(Number / fibers per field / Pass/Fail)					(Numbe	(Number / Pass/Fail)	/Fail)	)	מונמום ו	Giaticale med Area (IIIIII).	, , , ,		ĺ
Sample #	Location	Sample	Pump On	Pump Off	Time (Mins)	Roton	Rotometer Flow Rate	w Rate	Volume (Liters)	LOG	Actual Count	Adjusted Count *	Result *	Analyst ID
	Worker Name / SSN / Task	(1-10)	hh:mm	hh:mm	₹	ő	₽	Ave [B]	A*8=	(2.7 / C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
5	Blank	-20			4/54	The take	NOTE TO	1000			00//0	TNN		K
05	Blank		1		3	CONDIVINE IN THE AREA	II III S	Area,			0//00	lot /rit	Da lot /rit e	å
63	Ecst wing 3rd A	3	350	0801	7.81	8.2	Dy	4.4	1247	1030 182 8-5 RG B.T 1547 0.001	6.3/60	l	200.9	3
hο	Boiler Mede	~	735	8501	183	80	D 000	8.5	USS	1038 183 85 85 B.S W. 50.007 8/100	8/20	(	€00.0	
70	E654 Luin, 300 Pl	$\kappa$	1030	98	176	8.5	8.5	8.5	Shh	1030 130 175 8.5 8.5 1445 0.001 5/100	5//00	(	0.001	
3	Boiler Hade	٦	850	<b>8</b> C1	(70	100	8	83	SA CAPA	138 170 85 85 My 001 861	1//40	1	0.00	
20	Duplicate Analysis										Clos			Ä
	QA/QC Calculation	Abs Vali	Abs Value [Sqr Root	oot (first	- (kjisue	sqr Root	dup dens	ity)]<= 2.	7 × (Avg	of the sq F	(first density) - Sqr Roat (Jup density)]<= $2.77 \times (\text{Avg of the sq Root of the two counts})$	o counts)	Pask/Fail	3

If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)
For a 25mm filter and a Watton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/filds)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables other than mentioned \*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise

Work Phase:	1) Area Background 2) Pre-Abatement/Prep	<ol> <li>Asbestos Removal</li> <li>Final Cleaning</li> </ol>	5) Glove Bag Evolutions 7) Final Air Clearance
Comments:			
Analyst Signature:	ture:		Date: 8-30-18
Relinquished By: _	By:		Date:

Work Phase:

Received By:

1

Date:

Other Associated Work
 Blank

6) Personal Air Sample 8) Waste Load-Out

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**LING LOG** (Version 3.9 Revised 6/06/13) EFI Global, Inc. ASBESTOS AIR SAI.

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

026.00026

8.31.18 Project No.:98350-06932 But grands 17.

Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA -

Collection Date: Collected By: Kaya Carnes

Phase Rings Aligned: Analyzed By: Kayla Carnes A.SS 7050 Microscope Cleaned: X/N HSE-NPL Test Slide:

?

Microscope No: 1 F 0 2/1

Client Name: Fox Rock

Graticule Field Area (mm²): O-OO) (Number / Pass/Fail) (Number / fibers per field / Pass/Fail) 8118 Ref. Slide Data:

Pump   Pump   Time   Rotometer Flow Rate   Volume   LOG   Count   Count															
Blank   Blan	Sample #	Location	Sample		Pun ⊕#5	Time Mins	Roton	neter Flor	w Rate	Volume (Liters)	LOG	Actual Count	Adjusted Count *	Result *	Analyst ID
Blank		Worker Name / SSN / Task	(1-10)		hh:mm	₹	ర్	₽	Ave [B]	A * 8=	(2.7 / C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
Blank  Best wing 3- Feet  Best wing a wing wing wing wing wing wing wing wing	10	Blank				-	Treeson.	100 miles				0/10	57.4		8
3 700 9284 UNG 10.2 10.2 10.2 10.001 C. Shee —  4 Boiler House 4 TOBA 1000A 172 10.2 10.2 10.2 1044 0.001 8.5 pm —  6 Boiler House 4 1000A 114m 108 10.2 10.2 1010 0.00 5/100 —  Duplicate Analysis Abs Value [Sqr Root (first density) - Sqr Root (dup density)] <= 2.77 × (Avg of the sq Root of the two counts) is	05	Blank				000	ETILAN LIGH	in ing	Area			0/100	lot Vrit	Do Jot Vrit	3
Bother Howeld   4   1084   1000   172   10.2   10.2   1014   10.00   8.5/ma	03	East wing 3rd flow windows	~	700/	728A	3h1	7.0	2.01	20/	1569	0.00	6:3/	ſ	₹00.0	Ž
Bover House   4   1900   1900   1000	20	Boiter Hose	2	10%A	000	172	10.2	7.0/	7.0/	1354	(20)	8.5/20	ſ	ξ <sub>0</sub> ο.0	1g
Abs Value [Sqr Root (first density) - Sqr Root (dup density)]<= 2. 7 x (Avg of the sq Root of the two counts)	\$0	Boser House	5	4000	1 46	08	2:01	7.01	7.01	100	2000	2/100	)	300.0	7
Abs Value [Sqr Root (first tensity) - Sqr Root (dup den ity)]<= 2.7 x (Avg of the sq Root of the two counts)															
Abs Value [Sqr Root (first density) - Sqr Root (dup density)]<= 2.77 x (Avg of the sq Root of the two counts)															
Abs Value [Sqr Root (first density) - Sqr Root (dup density)]<= 2.77 x (Aνσ of the sq Root of the two counts)															
Abs Value [Sqr Root (first density) - Sqr Root (dup density)]<= 2.7 x (Avg of the sq Root of the two counts)															
Abs Value [Sqr Root (first density) - Sqr Root [dup density)]<= 2.77 x (Avg of the sq Root of the two counts)	3	Duplicate Analysis										5/100			Bel
		QA/QC Calculation	Abs Valu	ue [Sqr R		ensity) -	qr Root	dup den	ity)]<= 2.	77 × (Avg	of the sq F	Root of the tw	o counts)	Pass/Fail	B

\*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background 2) Pre-Abatement/Prep	<ol> <li>Asbestos Removal</li> <li>Final Cleaning</li> </ol>	5) Glove Bag Evolutions 7) Final Air Clearance
Comments:			
Analyst Signature:_	ure:		Date: 8-31-18
Relinquished By:	) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Date:

Work Phase:

Date:

Received By:

9) Other Associated Work10) Blank

6) Personal Air Sample 8) Waste Load-Out

Date:

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Microscope No: Ref. Slide Data:\_

Client Name: Fox Rock

EFI Global, Inc. ASBESTOS AIR SAI. JING LOG (Version 3.9 Revised 6/06/13)

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

020.00026 Project No.:<del>98359-96932</del>

81.18 d Collection Date: Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA - East wmg And Clean nee Collected By: Kayla Carnes

Phase Rings Aligned: O/N Analyzed By: Kayla Carnes Graticule Field Area (mm²): 22.09 HSE-NPL Test Slide: 7650 Microscope Cleaned: 8/N

(Number / Pass/Fail) (Number / fibers per field / Pass/Fail) 8/

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		All and a second	111					,						
Samole #	Location	Sample Type	Pump On	Pump Off	Time (Mins)	Rotom	Rotometer Flow Rate	v Rate	Volume (Liters)	POO	Actual Count	Adjusted Count *	Result *	Analyst ID
	Worker Name / SSN / Task	(1-10)	hh:mm	hh:mm	₹	ō	ŧ	Ave [B]	A 5	(2.7 / C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
01 🗚	Blank				1	Salah Salah	1	100	1000		00)/5	× × ×	100	115
02 A	Blank				200	Of Wille	Lio Not Witte in This Area	Vies			297 10	oo lot Vrit	Do Voit ©	140
03 A	Eest side windows North	7	948	á	82	15.2	15.2	15.2	12464	82 15.2 15.2 15.2 12464 0.002 2/100	00//2	I	00.07	_
8 hg	East Side Crimens North west	7	11年8月	4	83	(5.)	15.7 (5.5 15.5		170/16	3000	12016 0.002 3.5/ca	١	100.0	
\$	East Side Windows Anoth East	7	949Am 111	112Am 83	83	7.5)	15.2 15.2		3.76	126.60.005	3/100	(	6.001	
4 73	East Side windows center East	7	450Am 1114Am 84	1114Am		13.5	(5.5	15.5	1276.8	0.005	(5.2 (5.2 12K\$ 0.002 45/100	(	100.0	
Q > P	Eust side windows Center cuest	7	111 mb/51	11148	4× 83	(5.)	14.8 13.0 lbds 0.00	13.0	SHR	2000	3.5/00	(	100.9	
<b>A</b>	East side windows south was t	^	אווו-שתיים,	11612	6 pm 83 15.7	1.5.1	ダゴ	0.5)	245	0-0/8 15.0 1245 6.002 3/100	3/60	1	100.9	
5	Ecst Side Windows Sovah East	^	fs.M.	11 [7 Am	\$8	15.5	15.2	5.2	关	15.5 LOO S ST. 15.2 15.2 15.2 15.2 15.0 002 2.5/00	2.5%0	(	6.001	
60 0	pest sixte wordows	^	134	11178	bg.	18.5	0.51 8.71 15.5 14.8 15.0		0921	مر//ح ٢٥٥٠٥ عمر/	3//5	)	1.00-9	-
DA	Duplicate Analysis										3.5/600			2
S	QA/QC Calculation	Abs Val x.225	Abs Value [Sqr Root ( x.225	oot (first d	ensity) -	qr Root	anb dens	/)]<= 2.7	7 × (Avg	of the sq F	(first density) - Sqr Root (dup dens $ v $ )<= 2.77 x (Avg of the sq Root of the two counts)	o counts)	Pess/Fail	3

For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((ftb/flds)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables other than mentioned \*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)

Work Phase:	Area Background     Pre-Abatement/Prep	3) Asbestos Removal 4) Final Cleaning	5) Glove Bag Evolutions 7) Final Air Clearance
Comments:	,		
Analyst Signature:			Date: 8.21.10

Date:

Relinquished By:

Received By:

Date:

9) Other Associated Work10) Blank

6) Personal Air Sample8) Waste Load-Out

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#### **CERTIFICATE OF COMPLETION**

Site Name: Quincy Medical Center	<i>೦೩೦.೦</i> ೦ <b>೩೦</b> Project Number: <del>98350-06932</del>
Site Address: 114 Whitwell St. Quincy, MA	
Work Area: East Wing 3rd Floor East Sic	de Windows
Work Area: East Wing 3rd Flow East Sice Material & Quantity Removed: 17 Windows -> A	tem Lundow Callking
Contractor's Certification of Project Completion	
Contractor Supervisor hereby certifies that he/she has co work area in accordance with job specifications and t compliance with all applicable federal, state and local reg properly trained, licensed and provided all the proper of abatement. Proper engineering controls were used through	hat this project was completed in gulations. Contractor personnel were documentation to perform asbestos
Signature:	Date: 8.31.18
Print Name: MILSON SOTO	
Print Title: Super visor	
Contractor Name: Omni Environmental	
EFI Field Technician Certification	
The EFI field technician hereby certifies that he/she has com and verifies that this project has been completed in a safe a	
11/1	
Signature:	Date: 8-31-18
Print Name: Kayla Carnes	



#### **CERTIFICATE OF VISUAL INSPECTION**

Site Name: Quincy Medical Center	020 · 00 026 Project Number: <del>98350-0693</del> 2
Site Address: 114 Whitwell St. Quincy, MA	
Work Area: East Wing 3rd flow East	Side Windows
Work Area: East Wing 3rd flow East  Material & Quantity Removed: 17 windows ->	Acm Window Caulking
Contractor's Certification of Visual Inspection	
Contractor Supervisor hereby certifies that he/she has general, all surfaces including but not limited to piping, be plastic, decontamination unit, equipment, etc.) has found	eams, ledges, walls, decks, floor, sheet
	Date: 8-31-18
Print Name:	
Print Title: Super visor	
Contractor Name: Omni Environmental	
EFI Field Technician Certification	
The EFI on-site representative hereby certifies that he/she verifies that this inspection has been thorough. All surfactions and no dust, debris or residue remains.	
1/1/10	0.21.10
Signature:	Date: <u>8 · \$1 · 18</u>
Print Name: Kayla Carnes	



### **CERTIFICATE OF FINAL AIR CLEARANCE**

Site Name: Q	uincy Med	dical Cente	er			Project N	lumber:	020.00026 9 <del>8350 06932</del>
Site Address:	114 Whit	well St. Qu	incy, M	Α				
Work Area:	East	wing	3rd	floor	East	Side	Win	dows
Material & Q	uantity Re	moved:	17	windo	ws -	> Aci	n Wi	clows ndew Caulking
:=====								
EFI Certificati	on of Fina	al Air Clea	rance					
This certificate area. An air sai				arance has	been ach	ieved for	the abov	e containment work
	001 00				_	per Cubic ( hased Con		• • •
	//A	**		· · · · · · · · · · · · · · · · · · ·				iquared (f/cc) n Microscopy
Signature:		/10	_			Date	e: <u> </u>	ट्ठ <i>१</i> -१८
Print Name: K	ayla Carno	es						

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Client Name: Fox Rock

Microscope No: Ref. Slide Data:

EFI Global, Inc. **ASBESTOS AIR SAI.** \_ING LOG (Version 3.9 Revised 6/06/13) PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

020.00056

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10/2 of

Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA

Project No.:98350 06932 Collection Date: Collected By: Kayla Carnes

Phase Rings Aligned: 8/N Analyzed By: Kayla Carnes PASS (Number / Pass/Fail) 7050 Microscope Cleaned: 8 / N HSE-NPL Test Slide: (Number / fibers per field / Pass/Fail) 1.55 8/ 112071 8118

0.00.0 Graticule Field Area (mm²):

Analyst ID Initials Z <u>8</u> Z Do Not Will Result \* 200.0 (F/CC) ~85.0 Adjusted Count \* Do Not Writ (F/Flds) ( 1 (F/Flds) 8/10 8% Actual Count 00/10 6.3/100 (2.7 / C) go 8.5 1530 0.00g 8-2 165750001 Volume (Liters) A\*B= O Ave [B] Rotometer Flow Rate Do Not Write In This Area 0, S 4 Б 8.2 ام مه ō Time 1600 115m 195 100Am 1000m 180 ₹ Pump #0 hh:mm hh:mm Pump O n Sample Type (1-10)  $\sim$ 220 Rosy Worker Name / SSN / Task East wing zue run East wing 2nd Arm Location Blank Blank S NO Ø ≥ # 02 **2**2 01 **A** Sample #

usted for variables other than mentioned \*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise ibers/fields)/graticule area)

Abs Value [Sqr Root (first density) - Sqr Root (dup density)]<= 2.77 x (Avg of the sq Root of the two counts) Pags/Fail x.225

QA/QC Calculation **Duplicate Analysis** 

7/100

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8.6.8 Date:

> Analyst Signature: Relinquished By:

Comments:

Date:

Received By:

Date:

9) Other Associated Work 10) Blank

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250.00000 EFI Global, Inc. ASBESTOS AIR SAI. LING LOG (Version 3.9 Revised 6/06/13)

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Clearence Project No.:98350-06932 Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA - [Soil & horse

81.7.6 Phase Rings Aligned: V/N Analyzed By: Kayla Carnes Collection Date: Collected By: Kayla Carnes Microscope Cleaned: M/ N

70 to HSE-NPL Test Slide: (Number / fibers per field / Pass/Fail) PASS 5//00

1 F021 8168

Microscope No: Ref. Slide Data:

Client Name: Fox Rock

(Number / Pass/Fail)

0.0078S Graticule Field Area (mm²):

Analyst Initials 3 3 Z 200. Đô Result \* 200.9 200.0 €00.0 (F/CC) Not Will 00. \$00.0 Pass/Fail 500.0 6.000 oØ Adjusted Do Count \* (F/Flds) Abs Value [Sqr Root (first density) - Sqr Root (dup density)]<= 2.77 x (Avg of the sq Root of the two counts) Not ١ ( ١ Writ f 1 1 1 1 20/ 12.8/100 01/5.4 4.5/100 12/100 8//00 (F/Flds) 8//00 8/100 Actual Count 13/100 0/100 0//00 (2.7 / C) 0.00 0.001 0.00 100.0 6.00 g 00.00 0:00 0.0 8.0 Volume A\*B= (Liters) **4651** 300 (24) (<del>/</del>8 533 1260 1534 Đ, Ave [B] 0,5) 13.0 ٥-(۲) o. ∻ ٠<u>٠</u> 0.8 Rotometer Flow Rate **₽**~£] <u>~</u> DO NOT WITH IN THIS AREA 00 (3.0 Ø. 13.0 (3.0 3.0 *o* <u>~</u> ₽ 50 (3.0 <u>0,∑</u> 13.6 () 3.0 (ÿ ် رم د (با م Time (Mins) 3 730pm 931pm 121 1364 120 ₹ 9<u>9</u> 741Am 938Am 117 ヹ 136A- 935A- 119 727/4-136Am 119 933Am 37.5 Pump Off 140 PM 944 hh:mm 131Am 732Am Pump hh:mm 5 Sample (1-10) ype 5 ~ 5 ~ Worker Name / SSN / Task Man Goor North Cat walk East Cat welk center Base ment Sorta Main Plos Est Besement Lorth Main Plow West かられ Location **Duplicate Analysis** QA/QC Calculation Cat walk Blank Blank Sample # 9 8 8 0 60 5 ૪ b દ 6 9

For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100mm the concentration calculation is ((fib/flds)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables other than mentioned \*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOC. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)

Work Phase:	<ol> <li>Area Background</li> <li>Pre-Abatement/Prep</li> </ol>	3) Asbestos Removal 4) Final Cleaning	5) Glove Bag Evolutions 7) Final Air Clearance
Comments:	9		
Analyst Signature:	rre:	I	Date: 9.4.16
Relinquished By:	×	1	Date:

Received By:

Date:

Other Associated Work
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6) Personal Air Sample8) Waste Load-Out



#### **CERTIFICATE OF COMPLETION**

Site Name: Quincy Medical Center	ე 20∙ 00 0 20∙ Project Number: <u>98350-06932</u>
Site Address: 114 Whitwell St. Quincy, MA	
Work Area: Boiler House	
Material & Quantity Removed: 2500 LF Pipe Boiler in Sulation & interior boiler and	Insulation + 700 SF  ponents + 1500 SF Boiler  breeching insulation
Contractor's Certification of Project Completion	
Contractor Supervisor hereby certifies that he/she has work area in accordance with job specifications and compliance with all applicable federal, state and local r properly trained, licensed and provided all the proper abatement. Proper engineering controls were used through	that this project was completed in egulations. Contractor personnel were r documentation to perform asbestos
Signature: ////www.lo.	Date: <u> </u>
Print Name: WILSON R-SOTO	
Print Title: Project Manager	
Contractor Name: Omni Environmental	
EFI Field Technician Certification	
The EFI field technician hereby certifies that he/she has co and verifies that this project has been completed in a safe	• • •
Signature:	Date: 4 · 18
Print Name: Kayla Carnes	



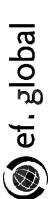
#### **CERTIFICATE OF VISUAL INSPECTION**

Site Name: Quincy Medical Center	020 - 0002.C Project Number: <del>98350-06932</del>
Site Address: 114 Whitwell St. Quincy, MA	
Work Area: Boiler House	
Material & Quantity Removed: 2500 LF Pipe	Insulation + 700SF Boiler
insulation & interior boiler componen	fs + 1500SF Boiler
msulation & interior boiler componen	breeching insulation
Contractor's Certification of Visual Inspection	
Contractor Supervisor hereby certifies that he/she has general, all surfaces including but not limited to piping, by plastic, decontamination unit, equipment, etc.) has found	beams, ledges, walls, decks, floor, sheet
Signature:	Date: 9 · 4 · 18
Print Name: Wilson R. SOTO	
Print Title: Superevisor	
Contractor Name: Omni Environmental	
EFI Field Technician Certification	
The EFI on-site representative hereby certifies that he/she verifies that this inspection has been thorough. All surfainspected and no dust, debris or residue remains.	•
Signature:	Date: 9-4.18
Print Name: Kayla Carnes	



### **CERTIFICATE OF FINAL AIR CLEARANCE**

Pipe insulation +700 SF
insulation +700 SF imponents + 1500 SF Boiler breeching Msulation
breeching Msulation
been achieved for the above containment work
Fibers per Cubic Centimeter (f/cc) Using Phased Contrast Microscopy
Structures per Millimeter Squared (f/cc) Using Transmission Electron Microscopy
Date: 9 · 4 · 18



EFI Global, Inc. ASBESTOS AIR SAI. ZING LOG (Version 3.9 Revised 6/06/13)

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

250.00056

Project No.:98359 06932 Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA

G-00785 5.5.18 Graticule Field Area (mm²): Phase Rings Aligned: **\overline{\ove** Collection Date: (Number / Pass/Fail) 2050 Collected By: Kaya Carnes Microscope Cleaned: Ø/N HSE-NPL Test Slide: (Number / fibers per field / Pass/Fail) 125 4.5/100 Microscope No: 1602(1 Ref. Slide Data: \$7/8 Client Name: Fox Rock

Sample #	Location Of	Sample	Pump	Pump Off	Time (Mins)	Roton	Rotometer Flow Rate (LPM)	w Rate	Volume (Liters)	LOQ	Actual Count	Adjusted Count *	Result *	Analyst ID
	Worker Name / SSN / Task	(1-10)	hh:mm	hh:mm	₹	ő	₽	Ave [B]	A*B=	(2.7 / C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
01 🖈	Blank				-	THEORY SOUTH	STATE OF	Marie			01/6	S.2.E.	Ш	K
02 <b>4</b>	Blank				3	COE WYTHE	DO NOT WITH IN THIS AVER	AVES.			8118	Do lot Vrit	Do lot Vrit	3
03	Bolw Huse	2	700 mg 101	010	9	8,3	8.5	1-80	Ig Sp	100	10 190 8.5 8.5 BT IUS 0001 8/100	l	0.002	-
e4 b	Fest um 2-d Har	~	710 pm	0	581	8.5	85	%. ⊗.	1572-	185 8.5 8.5 B.S 1572-0.001	1/100	١	200.0	
05 A	Boster Honce	3	10(0	301	61	8.5	5.8	8.5	1445	0.00	100 100 170 8.5 8.5 1445 0.001 5.5/cm	1	000	
<u>بر</u> ن	Ecst bom 2 Law	3	1	180	173	×.×	\ \ \ \	8.5	4,70.5	13 8.5 8.5 4/0.50-001 6/00	6/100	1	200.0	
٩	Duplicate Analysis										Colled			K
	QA/QC Calculation	Abs Valt x.225	Abs Value [Sqr Root (fi x.225	oot (first a.	ensity) -	qr Root	anb dens	sity)]<= 2.	7 × (Avg	of the sq	irst censity) - Sqr Root (Jup density)]<= $2.77 imes (Avg$ of the sq Root of the two counts)	vo counts)	Pas/Fail	A J

nan mentioned \*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.

6) Personal Ai 8) Waste Load	<ul><li>5) Glove Bag Evolutions</li><li>7) Final Air Clearance</li></ul>	<ol> <li>Asbestos Removal</li> <li>Final Cleaning</li> </ol>	<ol> <li>Area Background</li> <li>Pre-Abatement/Prep</li> </ol>	Work Phase:
Failed QC result is accepyume * 7.85). This calcul	ction of 5 Fibers/100 Fields, then a tion calculation is ((fib/flds)*385)/(Vo	equal to the analytical limit of dete diameter of 100um the concentral	and QC analysis are less than or end and a Walton-Beckett G-22 with a	It onginal analysis For a 25mm fitter a
	Failed QC result is acceptable. (Den lume * 7.85). This calculation MUST 6) Personal Air Sample 8) Waste Load-Out	ction of 5 Fibers/100 Fields, then a Failed QC result is acception calculation is (flb/flds)*385)/(Volume * 7.85). This calculations 5) Glove Bag Evolutions 6) Personal Air 7) Final Air Clearance 8) Waste Load	unalytical limit of detection of 5 Fibers/100 Fields, then a Failed C 00um the concentration calculation is ((fib/filds)*385)(Volume * . bestos Removal 5) Glove Bag Evolutions al Cleaning 7) Final Air Clearance	n or equal to the ith a diameter of 3) As ep 4) Fil

Analyst Signature: <a>Z</a> Comments:

Relinquished By:

Date:

Date:

Received By:

Date:

(@) ef. global

Client Name: Fox Rock

EFI Global, Inc. **ASBESTOS AIR SA**I. ING LOG (Version 3.9 Revised 6/06/13) PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

020.000 Site Name and Address: Quincy Medical Center, 114 Whitwell St. Quincy, MA - Fince Air Clearanee Project No.:98360-06992

81-5-5

Collection Date: Collected By: Kayla Carnes

Microscope Cleaned: W/N Phase Rings Aligned: W/N Analyzed By: Kavla Carnes Ref. Slide Data: \$716 4/160 Pass/Fail) Microscope No: | FO Lu

500785 Graticule Field Area (mm²): (Number / Pass/Fail) 7050 HSE-NPL Test Slide:

Sample #	Location	Sample	Pump On	Pump	Time (Mins)	Roton	Rotometer Flow Rate	v Rate	Volume (Liters)	LOG	Actual Count	Adjusted Count *	Result *	Analyst
	Worker Name / SSN / Task	(1-10)	hh:mm	hh:mm	Æ	б	₽	Ave [B]	A TO	(2.7 / C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
01	Blank				Č	Con Mercens	Value - House				9/20	527	53.0	K
05	Blank				000	ICE WITE	LIO NOT WITH IT THE AVER	West	j	100	OKOO	o lot /fil	iot /int e	¥
60	South Side	7	1128 12	30	B	15.2	13.2	15.2 15.2 1368	368	0001	a001 3/100	6.00)	1	
क्र	E 687 5,80e	7	112.54	112 Falloar	93	13.2	(5.2	181	14136	0.00	15.5 (52 14136 0.00) 4.5/100	120.0	9	
67	West side	7	131 Am	131 Am 103	45	7.8)	7.51	15.5	1388	0.00	18.5 18.2 18.5 O.001 4/100 0.001	100.0	7	
ر و	Nazan Side	<u></u>	11329 105	1050		2.5	1/2	18.5	1413G	18.2 18.2 18.2 14136 0-001	3/100 0.00	0.00	9	
Lo	center 1	\ \	11341110	90	<del>ا</del> ل	13.2	74 %	92 15.2 14.8 15.00 1280		9.00	25/20 60-001	Lo-0c1-	9	
80	Centur 2	7	155-107	101	75	15:5	7.51	15.2 15.2 1884 0001	1384		00)/h	6,001	9	
66	North West Side	~	35	89	٦٢	15.5	18.2	22	13584	0.001	15.2 15.2 15/84 0:001 5/100	-100.0	Ŷ	_
9)	Sodan Ecat SIAL	_	1131 - 105	60]	ئ ت	(\$2	14.8		250	1000	152 148 150 1380 0001 5/100	0.001	9	
Ø	Duplicate Analysis										4.5/60			Ž
3	QA/QC Calculation	Abs Val	ue [Sqr R	oot (first	ensity) -	ar Root	dnb dens	ity)]<= 2.	x (Avg	of the sq F	Abs Value [Sqr Root (first density) - Sqr Root (dup density)]<= $2.77 \times (\text{Avg of the sq Root of the two counts})$	o counts)	Rase/Fail	3

n mentioned \*If Ad sted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise

Work Phase:	<ol> <li>Area Background</li> <li>Pre-Abatement/Prep</li> </ol>	<ol> <li>Asbestos Removal</li> <li>Final Cleaning</li> </ol>	<ul><li>5) Glove Bag Evolutions</li><li>7) Final Air Clearance</li></ul>	6) Personal Air Sample 8) Waste Load-Out	9) Other Associated Work 10) Blank

Analyst Signature: Comments:

Relinquished By:

Date:

9/126

Date:

Received By:

Date:



### **CERTIFICATE OF COMPLETION**

Site Name: Quincy Medical Center	Project Number: <u>98350-06932</u>
Site Address: 114 Whitwell St. Quincy, MA	
Work Area: East wing and Flow - Room	n # B259 part 1
Work Area: Fost Wing and Flow - Room  Material & Quantity Removed: Black damppor	oofmg. ~55 SF
Contractor's Certification of Project Completion	
Contractor Supervisor hereby certifies that he/she has work area in accordance with job specifications a compliance with all applicable federal, state and local properly trained, licensed and provided all the propabatement. Proper engineering controls were used that	and that this project was completed in al regulations. Contractor personnel were per documentation to perform asbestos
Signature: <u>Alfon Let</u>	Date:9~5 +/%
Print Name: Wilson Scito	
Print Title: Super Visur	
Contractor Name: Omni Environmental	
EFI Field Technician Certification	
The EFI field technician hereby certifies that he/she has and verifies that this project has been completed in a s	• = •
Signature:	Date: 9-5 78
Print Name: Kayla Carnes	



#### **CERTIFICATE OF VISUAL INSPECTION**

Site Name: Quincy Medical Center Project	クセク・ <i>00</i> 0 とく ct Number: <del>98350-06932 -</del>
Site Address: 114 Whitwell St. Quincy, MA	
Work Area: East Wing 2nd Floor - pour	M #8259 PAAL
Work Area: East Wing 2nd Flace - pour Material & Quantity Removed: Black dampprouting	~55 SF
Contractor's Certification of Visual Inspection	
Contractor Supervisor hereby certifies that he/she has visually general, all surfaces including but not limited to piping, beams, lead plastic, decontamination unit, equipment, etc.) has found no dust,	dges, walls, decks, floor, sheet
Signature: Ulfron Jako	Date: 9-5-18
Print Name: WILSON SOTO	
Print Title: Juggo/150 R	
Contractor Name: Omni Environmental	
EFI Field Technician Certification	
The EFI on-site representative hereby certifies that he/she has comverifies that this inspection has been thorough. All surfaces withinspected and no dust, debris or residue remains.	
Signature:	Date: 5-5-18
Print Name: Kayla Carnes	



## CERTIFICATE OF FINAL AIR CLEARANCE

Site Name: Quincy Medical Center	ク <b>フ</b> ク・クログラ Project Number: <del>98350-06932</del>
Site Address: 114 Whitwell St. Quincy, MA	
Work Area: East Wing 2nd Floor	- Roun #B259
Work Area: East Wing 2nd Floor  Material & Quantity Removed: Black C	lampproceing NSSSF
EFI Certification of Final Air Clearance	
This certificate is to certify that final air clearance has area. An air sample concentration of:	been achieved for the above containment work
0-001	Fibers per Cubic Centimeter (f/cc) Using Phased Contrast Microscopy
NA	_ Structures per Millimeter Squared (f/cc) Using Transmission Electron Microscopy
Signature:  Print Name: Kayla Carnes	Date: 9-578

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EFI Global, Inc. ASBESTOS AIR SAMPLING LOG (Version 3.9 Revised 6/06/13)

Page 1 of 1

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Analyst Initials 122m PASS RRW RRW 28m 7722 RRM 28m ₽ 22km RZM If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Falled QC result is acceptable. (Density = (fibers/fields)/graticule area)

For a 25mm filter and a Watton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/filds)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables other than mentioned Result\* (F/CC) ole: "If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise Pass/Fail 500 500. .003 .003 2003 Soo Adjusted Count \* Phase Rings Aligned 20/N. Analyzed By: 26.5 bergy Mussely 16/100 18/100 3 (F/Flds) 100 Abs Value [Sqr Root (first density) - Sqr Root (dup density)]<= 2.77 x (Avg of the sq Root of the two counts) 100 Mei 13.51 Project No.: 020, 000 34 3 Collection Date: 9/6/18 4 = 11.5/100 13.5/100 (F/Flds) 001/81) Actual Count 0 100 100 8 <u>8</u> 8 1100 0/100 9 = (2.7 / C) .00% 8 600 1007 000 200 1003 Volume (Liters) A\*B= 2691 26% 0891 1393 300  $\overline{\Omega}$ Ave [B] 7 Rotometer Flow Rate 7.5 5 7 NetrWhite In This Area 7.5 Number / Pass/Fail) 7. 2245 LPM) ₽ 7.6 7.6 7 7 7 1 5 7.6 7.6 7.6 7.6 7 Collected By: 2c Las Wash 7 Site Name and Address: Burney Medical Comber 114 while 12 winey MA HSE-NPL Test Slide: 7141 Microscope Cleaned/20/ N (Mins) Time 90 223 233 ₹ 171 170 331 Pump hh:mm 2460 7 470 0953 1937 1343 1338 hh:mm Pump 0603 7470 2460 1000 0953 0612 5 Sample (1-10) Type 3 m m m M Number / fibers per field / Pass/Fail) 3 SAG. wiede containment @ HEPLA while containment @ Dean outide idiler House Gartside odside Boiler House Eggside these contamont & HEPA Worker Name / SSN / Task utide conformment & Docom 65 100 P. Zyulafond Mrea Location QA/QC Calculation **Duplicate Analysis** @ Zamlatra Hera See 13356 120 wh358 Poru 3358 20 m3356 Client Name: Foresck Blank Blank Microscope No: Ref. Slide Data: Sample # 8 03 5 03 g 40 10 80 050 8

9) Other Associated Work 10) Blank

6) Personal Air Sample 8) Waste Load-Out

Glove Bag Evolutions
 Final Air Clearance

Asbestos Removal
 Final Cleaning

Area Background
 Pre-Abatement/Prep

Work Phase:

Date:

Received By:

Date: 9/6/18

Date:

Analyst Signature:\_ Relinquished By: \_\_

Comments:

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32000.020 **LNG LOG** (Version 3.9 Revised 6/06/13) EFI Global, Inc. ASBESTOS AIR SAN

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

8-7-18 Project No.: 98350 06932

1082 ₽

Ą,

Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA

Phase Rings Aligned: Y/N Analyzed By: Kayla Carnes Collection Date: 2050 Collected By: Kayla Carnes Microscope Cleaned: Y / N HSE-NPL Test Slide: PaSS

(Number / Pass/Fail)

(Number / fibers per field / Pass/Fail)

د//٥٥

P76.

15071

Microscope No: \_ Ref. Slide Data:\_

Client Name: Fox Rock

Graticule Field Area (mm²):

23/00.0

		Sample	Pump	Pump	Time	Rotom	Rotometer Flow Rate	v Rate	Volume		Actual	Adjusted	L	Analyst
Sample #	Location	Type	_	ě.	_		(LPM)		(Liters)	o O	Count	Count *	Result *	Ω
	Worker Name / SSN / Task	(1-10)	hh:mm	hh:mm	₹	ဝ်	ъ	Ave [B]	A 50	(2.7 / C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
01	Blank				100	Section of	SOUTH NAME OF THE PERSON	1			olho	× 7 1	110	145
02	Blank				Don	OC WITE	Do Not Write in This Area.	frost.			ofteo	oc vot vrit	Oir Veri	A
03 h	Boiler Hose	~	70 2 PM	945	69	2.6	23	2.5	2.36h1	0-00)	702m 945m 163 9.2 9.2 1499.00.00 6/100	1	ζοο·ο>	¥
4 bo	Boiler House	~	947	1230	[65	2.5	2.5	2,5	9.2 9.2 1518 0-001	0-0	7.5/100	(	200.9	3
				D.										
2	Duplicate Analysis										10/100			K
	QA/QC Calculation	Abs Val x.225	Abs Value [Sqr Root (fil x.225	oot (first c	ensity) - 8	ar Root	dup dens	ity)]<= 2.	x (Avg	of the sq F	rst density) - Sqr Root (dup density)]<= $2.77 \times (\text{Avg of the sq Root of the two counts})$	vo counts)	Pa <b>S</b> /Fail	3

\*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100mm the concentration calculation is ((fib/filds)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase: 1) / 2) F	1) Area Background 2) Pre-Abatement/Prep	3) Asbestos Removal 4) Final Cleaning	<ul><li>5) Glove Bag Evolutions</li><li>7) Final Air Clearance</li></ul>	6) Personal Air Sample 8) Waste Load-Out
Comments:				

Date:

Relinquished By:

Received By:

Date:

Other Associated Work
 Blank

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**ING LOG** (Version 3.9 Revised 6/06/13) EFI Global, Inc. ASBESTOS AIR SAI

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

2902 ₽ ą

0.00785 UO 1-1 G Graticule Field Area (mm²): Phase Rings Aligned: Analyzed By: Kayla Carnes Project No.:98350-06952 Collection Date: (Number / Pass/Fail) Cleanance PRSS 7056 Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA Collected By: Kaya Carnes Microscope Cleaned: 6/N HSE-NPL Test Slide: (Number / fibers per field / Pass/Fail) 22.50 5/100 117 100 21/6 Client Name: Fox Rock Microscope No: Ref. Slide Data:

Analyst Initials Z Ž B Do Not Writ Result \* 0.00 00.0 (F/CC) 100.0 0-8 00.0 Pass/Fail 00. 800 109.0 O Adjusted Count \* Do (F/Flds) Abs Value [Sqr Root (first ensity) - Str Root dup density) <= 2.77 x (Avg of the sq Root of the two counts) Not ( ( ( 1 ١ ( ( l 35/100 3.5/1cm 13-5/100 4.5/100 4 1100 7 100 8 0///0 (F/Flds) 0/100 3/100 3 Actual Count **J** 6.002 200. o (2.7 / C) 200.0 200.07892 200.0 gett1 1333-4 0-coz 2000 007 200 9 3:971 9-51 3.51 156 15.6 15.6 127.2 1279.2 P.Ch. (Liters) h7.621 Volume A\*B= Ave [B] 18.4 (S.C. S.C. 15.4 186 186 15.4 Rotometer Flow Rate 15.6 15.6 Do Not Write in This Area 13.5 15.5 2.5 LPM) ₽ <u>ئ</u> ئ ا اي (Se (S. <u>ي</u> 56 70 ် 28 (Mins) Time <u>ئے</u> 79 ₹ B D A 死 20 (1050 NA)A 1057A- 1216 Pump Off hh:mm 7121 TASOI de Ce 2121 ASQ M594 1214 1056A-11216 1875年 105/ Pump hh:mm ် ဝ Sample (1-10)TABE 1 x.225 ~ Worker Name / SSN / Task Sexton Sorger とのなる くとなる mor Soft worth Soft Location **Duplicate Analysis** QA/QC Calculation 757 200 278 Room 257 285 256 Room 25. 28 **200** Ran Roch Rocm 2002 503 Blank Blank Sample #

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For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/fids)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables other than mentioned \*# Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)

9) Other Associated Work10) Blank

Date:

Received By:	Date:		l	Relinquished By:
	Date: 7-7-15		1	Analyst Signature:
	,		ę	Comments:
6) Personal Air Sample 8) Waste Load-Out	5) Glove Bag Evolutions 7) Final Air Clearance	3) Aspestos Hemoval 4) Final Cleaning	<ol> <li>Area background</li> <li>Pre-Abatement/Prep</li> </ol>	work Phase: 1) Are   2) Pre



### **CERTIFICATE OF COMPLETION**

Site Name: Quincy Medical Center	<i>⊙ 20 ∙ 000 2 &amp;</i> Project Number: <del>98350-0693</del> 2
Site Address: 114 Whitwell St. Quincy, MA	
Work Area: East Wing and Floor - Room +	#B255-B258 parts
Work Area: East way and Floor - Room # Material & Quantity Removed: Black dampproc	2fmg 120SF
Contractor's Certification of Project Completion	
Contractor Supervisor hereby certifies that he/she has composed in accordance with job specifications and to compliance with all applicable federal, state and local region properly trained, licensed and provided all the proper cabatement. Proper engineering controls were used through	that this project was completed in gulations. Contractor personnel were documentation to perform asbestos
Signature: <u>Myhon Tols</u>	Date: 9-7-18
Print Name: MILISON SOTO	
Print Title: SupERVISOR	
Contractor Name: Omni Environmental	
EFI Field Technician Certification	
The EFI field technician hereby certifies that he/she has comand verifies that this project has been completed in a safe a	
Signature:	Date: 9-7-/8
Print Name: Kayla Carnes	-



#### **CERTIFICATE OF VISUAL INSPECTION**

520.00026 Site Name: Quincy Medical Center Project Number: 98350-06932 Site Address: 114 Whitwell St. Quincy, MA Work Area: East Wing 2nd Flour - Roums# B255-B258 part 2
Material & Quantity Removed: Black dampproofing 120 SF **Contractor's Certification of Visual Inspection** Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue. Signature: Million Jab Date: 9-7-18 Print Title: Supervisor Contractor Name: Omni Environmental **EFI Field Technician Certification** The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.

Print Name: Kayla Carnes



### **CERTIFICATE OF FINAL AIR CLEARANCE**

2

Site Name: Quincy Medical Center	<i>o zo、○○</i> ○こん Project Number: <u>98350-06932</u>
Site Address: 114 Whitwell St. Quincy, MA	
Work Area: East Wing and Hoo	r - Roms # B255 - B258 port
Material & Quantity Removed: Black	r-Roms#B255-B258 port Sampprooting 120 SF
EFI Certification of Final Air Clearance	
This certificate is to certify that final air clearance area. An air sample concentration of:	has been achieved for the above containment work
0-001	Fibers per Cubic Centimeter (f/cc) Using Phased Contrast Microscopy
NIA	Structures per Millimeter Squared (f/cc) Using Transmission Electron Microscopy
Signature: <u>Hora</u>	Date: 9-7-18
Print Name: Kayla Carnes	

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EFI Global, Inc. <b>ASBESTOS AIR SAI</b> L ING LOG (Version 3.9 Revised 6/06/13) PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)	Project No.:98350-06932
EFI Global, Inc. <b>ASBESTOS AIR SA</b> N PCM: NIOSH 7400 Metho	edical Center, 114 Whitwell St. Quincy, MA
er, global	Site Name and Address: Quincy M

Analyst Initials ž Ž Y Y 3 Do Not Writ **2**00.0 ₹∞.9 Result \* Graticule Field Area (mm²): 0・00/8・2 (F/CC) Pass/Fail 81.01.0 0 Adjusted Count \* Do F/Flds Abs Value [Sqr Root (first pensity) - Sqr Root (dup den ity)]<= 2.77 x (Avg of the sq Root of the two counts) Not Writ ) Phase Rings Aligned: 4/N Analyzed By: Kayla Carnes 6.5/10 0/100 1110 5/100 Actual Count (F/Flds) 8.0 8.5/147.50.002 5/100 Collection Date: 8-5 B-5 1487.5 6.001 (2.7 / C) g Volume (Liters) A\*B= 5 Ave [B] Rotometer Flow Rate (Number / Pass/Fail) Do Not Write in This Area ₽ ري ک *و*ا مه 2050 ် Collected By: Ka la Carnes Microscope Cleaned: 70/N 135 720, 1015, 175 (Mins) Time ₹ HSE-NPL Test Slide: 1615 1231. Pump O# hh:mm Pump On D hh:mm Sample (1-10) Туре x.225 ~ (Number / fibers per field / Pass/Fail) W PKSK Worker Name / SSN / Task 5//00 Boller Howse Boiler House Location **Duplicate Analysis** QA/QC Calculation 3716 Microscope No: 16021 Client Name: Fox Rock Blank Blank Ref. Slide Data: Sample # 6 8 5 100 ર

If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)

For a 25mm filter and a Watton-Beckett G-22 with a diameter of 100mm the concentration calculation is ((fib/fids)\*385)/(Volume \* 7.85). This calculation MUST be adjusted for variables other than mentioned \*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise

Work Phase:	1) Area Background	3) Asbestos Removal	5) Glove Bag Evolutions	6) Personal Air Sample
	z) Pre-Abatement/Prep	4) Final Cleaning	7) Final Air Clearance	8) Waste Load-Out
Comments:				
	111			
Analyst Signature:	True: ////		Date: 7-/0-/6	
Relinquished By:	3. /		Date:	Beceived By:
-				

Received By:

Date:

Other Associated Work
 Blank

# **DEP Notification**



### **Massachusetts Department of Environmental Protection**

## **eDEP Transaction Copy**

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Username: **CHRISMODICA** 

Transaction ID: 1246998

Document: AQ 06 - Construction/Demolition Notification

Size of File: 224.69K

Status of Transaction: In Process

Date and Time Created: 2/11/2021:11:33:42 AM

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### Massachusetts Department of Environmental Protection

**BWP AQ 06 Pre-Form**Notification Prior to Construction or Demolition

	This is a revision to an existing form.  Project ID for existing form to be revised:
	This job is being conducted under a Blanket Permit.  MassDEP assigned Blanket Authorization ID:
	This job is being conducted under a Non Traditional Abatement Work Practice Permit.  MassDEP assigned Non Traditional Work Practice Authorization ID:
✓	None of the above conditions apply, generate a new form.

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### Massachusetts Department of Environmental Protection **BWP AQ 06** Notification Prior to Construction or Demolition

100	339095
Asl	bestos Project #
Г	Project Revision
Г	Project Cancellation

### A. Applicability

A Construction or Demolition operation of an industrial, commercial, or institutional building, or residential building with 20 or more units is regulated by the Department of Environmental Protection (MassDEP), Bureau of Waste Prevention, Air Quality Division, under Regulations 310 CMR 7.09. Notification of Construction or Demolition operations is required under 310 CMR 7.09 (2) ten (10) working days prior to any work being performed. The following information is required pursuant to 310 CMR 7.09.

1. Is this a fee exempt notification (city, town, district, municipal housing authority, state facility, owner-occupied residential property of four units or less)?

□ a. Yes ▼ b. No	
2. Blanket Permit Project Approval, if applicable:	
	Approval ID #
3. Non-Traditional Asbestos Abatement Work Practice Approval, if applicable:	
	Approval ID #

#### Instructions:

### **B.** Facility Description

1. All sections of this form must be	1.	Facility Information:				
completed in order to		QUINCY MEDICAL CENTER		114 WHITWELL STREET		
comply with the <b>Department of</b>		a. Name of facility		b. Street Address		
Environmental		QUINCY	MA	021690000	6172491414	
Protection notification		c. City/Town	d. State	e. Zip Code	f. Telephone	
requirements of 310		JOSH KLEINMAN, AIA		DIRECTOR OF D	DESIGN & CONSTRUCTION	
CMR 7.09.		g. Facility Contact Person		h. Facility Conta	ct Person Title	
		6172491414 i. Facility Contact Person Telephone k. Facility Size:		JOSH@FOXRO	CKQUINCY.COM	
				j. Facility Contact Person Email		
MassDEP Use Only						
Date Received	380,152			6		
		1. Square Feet		2. Number of Flo	pors	
		1. Was the facility built prior to 1980?		<b>✓</b> 1. Yes	2. No	
	<u> </u>	m. Describe the current or prior use of the facility: $ \begin{array}{c} \text{PRIOR USE - HOSPITAL} \\ \text{n. Is the facility a residential facility?} & \boxed{1. Yes} \end{array} $	✓ 2. No	o. If yes, how i	many units?	
		Facility Owner:	,			
		FOXROCK WHITWELL REALTY, LLC		1200 HANCOC	KSTREET	
		a. Facility Owner Name		b. Address		
		QUINCY	MA	021690000	6172491414	
		c. City/Town	d. State	e. Zip Code	f. Telephone	
		Facility On-Site Manager/Owner Representative:		☐ Same	contact person as facility	
				☐ Same	address as facility	
			Same address as owner			
	DELLBROOK CONSTRUCTION LLC D/B/A DELLBROOK   JKS			859 WILLARD STREET		
		a. On-Site Manager/Owner Representative		b. Address		
		Quincy	MA	02169	7813801675	
		c. City/Town	d. State	e. Zip Code	f. Telephone	

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## Massachusetts Department of Environmental Protection **BWP AQ 06**Notification Prior to Construction or Demolition

100339095	
Asbestos Project #	
Project Revision	
Project Cancellation	

### **C.** General Project Description

1. This project is:	<b>▼</b> Dei	nolition 🔽	• Renovation	
2. Project Dates:				
1/4/2021	2/29/2024			
a. Project Start Date (MM/DD/YYYY)		b. Project End Date (MM/DD/YYYY)		
2.6				
3. General Contractor:				
DELLBROOK CONSTRUCTION LLC D/B/A DELLBRO	859 WILLARD STREET			
a. Name		b. Address		
QUINCY	MA	021690000	7813801675	
c. City/Town	d. State	e. Zip Code	f. Telephone	
ROBERT SOLON		9786047772		
g. General Contractor's On-site Manager/Foreman		h. Telephone		
4. Construction or demolition contractor:	<b>▼</b> Sar	ne as General Co	ntractor	
DELLBROOK CONSTRUCTION LLC D/B/A DELLBROOK   JKS		859 WILLARD STREET		
a. Contractor Name		b. Address		
QUINCY	MA	021690000	7813801675	
c. City/Town	d. State	e. Zip Code	f. Telephone	
ROBERT SOLON		9786047772		
g. Construction and Demolition On-site Manager		h. Telephone		
5. Licensed Construction Supervisor:				
ROBERT SOLON		CS-043862		
a. Supervisor Name		b. Construction Supervisor License (CSL) Number		
6. Is the entire facility to be demolished?	a. Yes	b. No		
7. Describe the area(s) to be demolished:				
QUINCY MEDICAL CENTER BUILDINGS & BOILER PLA	NT			
8. Describe the building(s) or addition(s) to be	construc	ted:		
FOUR (4) RESIDENTIAL BUILDINGS				
`,				
9 a. Were the structure(s) surveyed for the pre	sence of	Asbestos-Conta	ining   ▼ 1. Yes   □ 2. No	
Material (ACM)?				
b. Who conducted the survey?				
JOHN VAZ		AI000270		
1. Name of Asbestos Inspector		2 DLS Certification #		

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## Massachusetts Department of Environmental Protection $BWP\ AQ\ 06$

Notification Prior to Construction or Demolition

100339095				
Asbestos Project #				
Project Revision				
Project Cancellation				

### C. General Project Description (continued)

payment of the applicable fee is

made."

	10 a. Was asbestos containing material (ACM) found?			☐ 2. No			
or Demolition operation, all responsible parties must comply with 310 CMR 7.00, 7.09, 7.15, and Chapter 21E of	b. If ACM was found during the survey, please provide the Asbestos						
	Notification Form (ANF) Project Number.						
	11. For demolition and construction projects, indicate dust suppression techniques to be used:						
	a. Seeding v b. Wetting v c. Covering d. Paving e. Shrouding						
	a. second   v. wetting   v. c. covering   d. raving   c. Sinouting						
	f. Other - Specify:	EMPORARY CONTAINMENT					
	-						
	12. Is this an Emergency Demolition Operation?   ☐ a. Yes    ☐ b. No						
Γhis would include, out would not be	c. Name of MassDEP Official who evaluated the emergency						
imited to, filing an	C. Ivallie of Massbell Official wife eve	nuated the emergency					
asbestos removal notification with the	d. Title						
Department and/or a							
notice of	e. Date of Authorization (MM/DD/YYY	Y) f. MassDEP Waiver Numbe	 r				
elease/threat of elease of a							
nazardous	D. Certification						
substance to the Department, if applicable.	"I certify that I have personally examined the foregoing and am	OUDIOTORUED I MODIOA					
		CHRISTOPHER J. MODICA  1. Print Name					
	familiar with the information	CHRISTOPHER J. MODICA					
	contained in this document and	2. Authorized Signature					
	all attachments and that, based	SENIOR PROJECT MANAGER					
	on my inquiry of those individuals immediately	3. Position/Title					
responsible for obtaining information, I believe tha	responsible for obtaining the	DELLBROOK CONSTRUCTION LLC D/B/A DELLBROOK   JKS					
	information, I believe that the	4. Representing					
	information is true, accurate, and complete. I am aware that there	12/24/2020					
are signifi submitting including	are significant penalties for	5. Date (MM/DD/YYYY)					
	submitting false information,	6. P.E. #					
	including possible fines and imprisonment. The undersigned	G. 1 . E. 11					
	hereby states, under the						
	penalties of perjury, that I am						
	aware that this permit						
	application or notification shall not be deemed valid unless						
	not be accinica valia anness						

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